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Dear Customer:

Thank you for your interest in C Tech Corporation
Attached is a current Material Safety Data Sheet (MSDS) for the following product(s) purchased or requested by your company.

C Tech Ref	Product Name	MSDS #
TERMIREPEL™@5%MB	TERMITE REPELLANT TERMIREPEL™@ NON TOXIC MASTERBATCH	TERMI/1/2006

This MSDS has been prepared in accordance with regulatory standards & provides important health and safety information. We suggest that you review this document prior to handling the product. For the MSDS to be an effective means of hazard communication, it must be made available to all those who handle and are responsible for operations involving this product. Information contained herein should not be used for specification purposes.

We recommend that you consult your occupational health and safety specialist to insure that methods used in the handling, storage and reporting of these products will be adequate and in compliance with applicable laws and regulations.

If additional health and safety information is required, please call the C Tech Corporation Office

Confidentiality Notice & Legal Notice

This e-mail transmission, Letter, Material Safety Data Sheet or facsimile transmission may contain confidential or legally privileged information that is intended only for the individual or entity named in the e-mail address e-mail transmission, letter or facsimile transmission. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or other unauthorized use of the contents of this E-mail transmission, Letter, Material Safety Data Sheet letter or facsimile transmission is strictly prohibited If this communication is received in error, please notify us immediately.

Disclaimer and Waiver of Liability

The Information herein is believed to be correct & is given in good faith, but no warranty, expressed or implied is made with respect to the product described or its use. As the use of this product is beyond our control, the user must accept responsibility for its suitability for any particular application. No statement may be construed as permission or recommendation for any use that would infringe on any law, ordinance or patent.

The information in this MSDS was obtained from current and reliable sources. However , the data is provided without any warranty , expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume full responsibility for loss, injury and expense arising out of product's improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage use or disposal of this product which may not be covered in this MSDS. It is advised that the user look up the current regulations locally. The manufacturer is not responsible for infringement of any local regulations & rules. On accepting the product MSDS and the product accompanied by the Material safety data sheet the entire product liability is the sole responsibility of the customer/user.

TERMIREPEL™@ is a registered trade mark of C Tech Corporation. Please note that the user of the product is solely responsible for full compliance with the rules & regulations of the country in which the product is used. Products will not be offered for sale in countries where valid Patents are in force. It is the responsibility of the buyer to comply with the above.

Sincerely,
C Tech Corporation
Product Safety
Attachment



ISO 9001: 2000 REGISTERED



ISO 14001: 1996 REGISTERED

TERMIREPEL™ @ 5% Master Batch in Ethylene Vinyl Acetate

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Substance

BENZYL DIETHYL[(2,6-XYLYLCARBAMOLYL METHYL)] AMMONIUM (E)-; 8-METHYL-N-VANILLYL-6-NONENAMIDE, N-[2-[(2,6-DIMETHYLPHENYL)AMINO]-2-OXOETHYL]-N, N-DIETHYL- BENZENEMETHANAMINIUM-BENZOATE COMPLEX WITH SILVER AND LIMENIODS AND AZADIRACHTIN.BASE CARRIER RESIN EVA

Chemical Family carboxylic acids, esters, organic compounds
Creation Date Oct 09 2006
Revision Date Dec 10 2012

Company Information

Product TERMIREPEL™ @ 5% Masterbatch
Manufacturer C-Tech Corporation
Address Mumbai-400025, India.
Telephone Numbers +91-22-32906293/+91-22-32905409
Fax +91-22-24309295

SECTION 2 - COMPOSITION & INFORMATION ON INGREDIENTS

Appearance grey coloured granules
Purity 99% min(of actual additives)
Melting Point 175-178°C of pure 100 % Product. Masterbatch may melt at 85-105 °C
Acidity (3% Solution) ph=6.5-7.5
Chloride Content 0.2% max
Loss on drying 1.0% Max
Stability Product is thermally stable upto 300°C.

SECTION 3 - HAZARDS IDENTIFICATION

NFPA Ratings (0-4) HEALTH=1 FIRE=1 REACTIVITY=0
EC Classification (Calculated) NA
NA

EMERGENCY OVERVIEW

Colour White
Physical Description Crystalline plastic granules
Odor Odourless
Major Health Hazards No significant target effects reported.
Physical Hazards NA

POTENTIAL HEALTH EFFECTS

Inhalation
short term exposure no information is available
long term exposure no information is available
Skin contact
short term exposure Itching
long term exposure no information is available
Eye contact
short term exposure no information is available
long term exposure no information is available
Ingestion
short term exposure no information on significant adverse effects
long term exposure no information is available

CARCINOGEN STATUS

OSHA N
NTP N
IARC N

SECTION 4 - FIRST AID MEASURES

Inhalation Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention.
Skin Contact Remove contaminated clothing, jewellery, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.
Eye Contact Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.
Ingestion If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

SECTION 5 - FIRE FIGHTING MEASURES

Fire and Explosion Hazards Slight fire hazard..

Extinguishing Media	regular dry chemical, carbon dioxide, water, regular foam
Fire Fighting	Large fires: Use regular foam or flood with fine water spray. Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Occupational Release	Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.
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SECTION 7 - HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.
Store in a tightly closed container. Keep separated from incompatible substances.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits	No occupational exposure limits established.
Ventilation	Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.
Eye Protection	Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Clothing	Wear appropriate chemical resistant clothing.
Gloves	Wear appropriate chemical resistant gloves.
Respirator	Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any dust, mist, and fume respirator. Any air-purifying respirator with a high-efficiency particulate filter. Any powered, air-purifying respirator with a dust, mist, and fume filter. Any powered, air-purifying respirator with a high-efficiency particulate filter. For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full face piece.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Color	creamish
Physical Form	Crystalline granules
Odour	Odourless
Taste	bitter taste extreme pungent taste
Boiling Point	Not applicable
Melting Point	331-338 F (166-178 C) Pure product
Vapour Pressure	Not applicable
Specific Gravity (water=1)	Not available
Water Solubility	Not Soluble
Ph	6.5-7.5 (3% solution) of pure product
Volatility	Not applicable
Evaporation Rate	Not applicable
Coefficient of Water/Oil Distribution	Not available
Solvent Solubility	Soluble: alcohol, chloroform Slightly Soluble: acetone Very Slightly Soluble: ether

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Stable at normal temperatures and pressure.
Conditions to Avoid	Avoid heat, flames, sparks and other sources of ignition.
Incompatibilities	NA
Hazardous Decomposition	Thermal decomposition products: oxides of carbon
Polymerization	Will not polymerize.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity Data	Acute Oral rat(LD50) : >45,000 mg/kg Acute Dermal rat (LD50): >22,800 mg/kg Acute Inhalation mouse(LC50): >100,000 mg/m3/ 4 hrs
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Acute Toxicity Level Very Moderately Toxic: ingestion

HEALTH EFFECTS INHALATION

Acute Exposure	Asthmatic reactions have been reported in several persons using commercial products containing this substance. Vomiting may also occur due to extreme bad taste
Chronic Exposure	No data available.

SKIN CONTACT

Acute Exposure	Pruritis, wheal formation and erythema have been reported in several persons using commercial products containing this substance.
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Chronic Exposure No data available.
EYE CONTACT
Acute Exposure : No data available.
Chronic Exposure : No data available.
INGESTION
Acute Exposure The lethal dose reported in rats was 10040 mg/kg.
Chronic Exposure No data available.

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

SECTION 14 - TRANSPORT INFORMATION

Land Transport ADR/RID No classification assigned.
Air Transport IATA/ICAO No classification assigned.
Maritime Transport IMDG No classification assigned.

SECTION 15 - REGULATORY INFORMATION

US Regulations
TSCA Inventory Status N
TSCA 12(b) Export Notification Not listed.
CERCLA Section 103 40CFR302.4 N
SARA Section 302 40CFR355.30 N
SARA Section 304 40CFR355.40 N
SARA Section 313 40CFR372.65 N
SARA Hazard Categories, SARA Sections 311/312 40CFR370.21 ACUTE: N
CHRONIC: N
FIRE: N
REACTIVE: N
SUDDEN RELEASE: N

OSHA Process Safety 29CFR1910.119 N
State Regulations
California Proposition 65 N
European Regulations
EC Risk and Safety Phrases

S 2 Keep out of reach of children.
S 13 Keep away from food, drink and animal feeding stuffs.
S 24 Avoid contact with skin.
S 36 Wear suitable protective clothing.
S 46 If swallowed, seek medical advice immediately and show this container or label.

CLASSIFICATION AND LABELING ACCORDING TO NEW EU DIRECTIVES

INDICATION OF DANGER: Symbol Xn

R- PHRASES

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

S- PHRASES

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

SECTION 16 – OTHER INFORMATION

PERTINENT PHRASES: S36/37/39
PERTINENT PHRASES: R36/37/38
HANDLE ALWAYS USING GLOVES AND FACE MASK

Confidentiality Notice:

The Information herein is believed to be correct & is given in good faith, but no warranty, expressed or implied is made with respect to the product described or its use. As the use of this product is beyond our control, the user must accept responsibility for its suitability for any particular application. No statement may be construed as permission or recommendation for any use that would infringe on any law, ordinance or patent.

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R&D MANAGER/QC

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