

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Eco-Coating
PRODUCT NUMBER: 55-40, 55-41



MON-ECO INDUSTRIES, INCORPORATED

TRADE NAME: Eco-Coating GENERAL USE: Paint CHEMICAL FAMILY: Water Based Paint MANUFACTURER Mon-Eco Industries, Inc. TELEPHONE NUMBER (General Inquiries) 732-257-7942 ADDRESS (NUMBER, STREET, P.O. BOX) 5 Joanna Ct (CITY, STATE AND ZIP CODE) COUNTRY East Brunswick, NJ 08816 USA	PRODUCT DESCRIPTION: Liquid with mild odor. EFFECTIVE DATE: 24 September 2010 DATE OF EXPIRATION: 23 September 2013 SUPERSEDES DATE: 24 August 2010 CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;">ChemTel INC. </td> <td style="width: 33%; border: none; text-align: center;">1-800-255-3924 North America (Toll Free)</td> <td style="width: 33%; border: none; text-align: center;">813-248-0585 International and Local Calls</td> </tr> </table>	ChemTel INC.	1-800-255-3924 North America (Toll Free)	813-248-0585 International and Local Calls
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SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Warning! Mists may cause eye, skin, and respiratory tract irritation. Possible cancer hazard. May cause cancer based on animal data. Risk of cancer depends on duration and level of exposure. Target Organs: Respiratory system, eyes, skin..
WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

US (DOT) None	CANADA (WHMIS) SYMBOL(S) 	EUROPEAN 	(GHS) HAZARD SYMBOLS
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HMIS HAZARD RATINGS 0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE 3 = HIGH, 4 = EXTREME * - CHRONIC HEALTH HAZARD	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e6f2ff;">HEALTH:</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ffe6e6;">FLAMMABILITY:</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffe6cc;">PHYSICAL HAZARD:</td> <td style="text-align: center;">0</td> </tr> </table>	HEALTH:	1	FLAMMABILITY:	0	PHYSICAL HAZARD:	0
HEALTH:	1						
FLAMMABILITY:	0						
PHYSICAL HAZARD:	0						

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:
HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: **C or H**

(H) Splash goggles, gloves, apron (C) and combined vapor and dust respirator (H) where product is being either spray applied or ground/sanded.

RISK PHRASES
R2: Keep out of the reach of children.
R40: Limited evidence of a carcinogenic effect.

SAFETY PHRASES
S 36/37: Wear suitable protective clothing and gloves.

POTENTIAL HEALTH EFFECTS

ACUTE EXPOSURE EFFECTS

INHALATION:
 Respiratory tract irritation may occur. Harmful if inhaled. May cause central nervous system effects. Symptoms of exposure include fatigue, irritability, headache, dizziness and/or drowsiness, gastric disturbances, and intolerance to alcohol. Antimony compounds may enter the body through the lungs. Inhalation may produce severe bronchitis with spasms, coughing, and chest pain.

SKIN:
 May cause moderate skin irritation. May be harmful if absorbed through the skin. Repeated or prolonged skin contact may cause antimony measles characterized by itchy papules and pustules around the sweat and fat glands.

EYES:
 May cause moderate to mechanical eye irritation. Causes redness and pain; chemical conjunctivitis may occur.

INGESTION:
 Causes gastrointestinal distress if ingested. May cause ataxia (failure of muscular coordination), hallucinations, hypermotility, muscle contraction/spasticity, fatigue, psychosis, and tremors. May cause slow pulse, low blood pressure, bloody stool, shallow breathing, coma, convulsions, and possible death. Other symptoms are similar to inhalation exposures; see Section2: Inhalation Exposure.

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SECTION 2 - HAZARDS IDENTIFICATION (Continued)

CHRONIC EXPOSURE EFFECTS

Prolonged or repeated skin contact may result in defatting of skin, and dermatitis. May cause cancer according to animal studies; prolonged and or multiple exposures increase the risk. Adverse reproductive effects have been reported in animals for the antimony trioxide component of this product. Laboratory experiments for the antimony trioxide component of this product have resulted in mutagenic effects. A possible risk of irreversible effects exists for this product; this risk increases with prolonged and/or multiple exposures. Antimony trioxide may cause chronic heart disease due to effects on the heart muscle. Proper utilization of Personal Protective Equipment (see above and Section 8) is essential to mitigate risks associated with product.

CARCINOGENICITY:

IARC - antimony trioxide, titanium dioxide = Group 2B. **NTP**- No
California Proposition 65 - antimony trioxide listed. **ESIS** - titanium dioxide, antimony trioxide=R40.

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 2)
Titanium Dioxide	5-10	13463-67-7	236-675-5	Xn	R40
Antimony Trioxide (a)	1-5	1309-64-4	215-175-0	Xn	R40

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1997/2006/EC (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC. **(a) - WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.**

SECTION 4 - FIRST AID MEASURES

INHALATION:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get emergency medical aid for cases of breathing difficulty or cessation, or where victim is not conscious and alert to surroundings. Do NOT use mouth-to-mouth resuscitation.

EYES:

Remove contact lenses if present. Immediately flush eyes with plenty of potable water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get prompt medical assistance.

SKIN:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

INGESTION:

DO NOT INDUCE VOMITING!!! If victim is conscious and alert to surroundings, rinse mouth thoroughly and drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Seek emergency medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

DATA RELATED TO FIRE:

FLASH POINT: None to BP TAG **AUTO-IGNITION TEMPERATURE:** NA
FLAMMABLE/EXPLOSIVE LIMITS: LOWER: NA UPPER: NA

SENSITIVITY TO MECHANICAL IMPACT/ STATIC DISCHARGE: NONE

GENERAL HAZARDS:

Product is non-combustible. Strongly heated product may produce irritating and/or toxic fumes. Wear self-contained breathing apparatus and full chemical firefighting gear.

SUITABLE EXTINGUISHING MEDIA:

Water Spray, Foam, CO2, Dry Chemical - as appropriate to fight surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA:

None.

FIRE FIGHTING PROCEDURES:

Firefighters must wear a self contained breathing apparatus and full chemical firefighting gear when fighting fires involving this product. Water may be used to cool off fire-exposed containers to prevent rupture.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Irritating and toxic fumes may be generated from heated product; wear full chemical firefighting gear.

HAZARDOUS COMBUSTION PRODUCTS:

Hydrogen chloride, carbon monoxide, carbon dioxide.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Evacuate all non-essential personnel and cordon off affected area. Cleanup personnel should wear Personal Protective Equipment. For small spills, wipe and clean up spill; place towels in container designed for hazardous waste. For large spills, absorb with inert material (vermiculite, sand, diatomaceous earth) and place in sealed container designed for hazardous waste. Dispose of used absorbent in a licensed and permitted facility, preferably by incineration with exhaust scrubbers being used. Avoid contamination of waterways, sewers etc with this product.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Handle product while wearing Personal Protective Equipment and provide adequate ventilation to avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Store only in original container. Store in a cool dark place with adequate ventilation; protect product from light. Keep out of reach of children. Store in a tightly closed container away from incompatible materials. Do Not Freeze!

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS #	ACGIH Exposure Limits (mg/m3 unless otherwise noted)	OSHA Exposure Limits (mg/m3 unless otherwise noted)
Titanium Dioxide	13463-67-7	10	15
Antimony trioxide	1309-64-4	0.5 mg/m3 TWA (as antimony metal)	0.5 mg/m3 TWA (as antimony metal)

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

If product is applied by spraying, use approved respirator (e.g. EN-149), NIOSH/OSHA, AS) as required to prevent over exposure. Use an air-supplied respirator where high concentrations are expected, or an air-purifying respirator for organic vapors (with combined particulate filter if particulate matter is present). If ventilation is insufficient, supplied-air masks may be necessary.

PROTECTIVE GLOVES:

Wear gloves made of chemically resistant material such as nitrile or neoprene.

EYE PROTECTION:

Wear safety glasses with splash protective side shields or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear protective clothing such as apron or spray suit where splash hazard exists.

ENGINEERING CONTROLS:

Provide general ventilation sufficient to control airborne concentration below the TLV/TWA's listed.

WORK / HYGIENIC PRACTICES:

Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use. Dispose of contaminated leather footwear.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Soft paste, mild odor.	VAPOR PRESSURE 17 mm Hg
ODOR THRESHOLD Not Established	SPECIFIC GRAVITY (WATER = 1) 1.39
FREEZING / MELTING POINT Not Established	BOILING POINT 212°F / 100°C @ 1 bar (750 mm Hg)
SOLUBILITY IN WATER Dilutable when wet.	COEFFICIENT OF WATER / OIL DISTRIBUTION Not Determined
pH Not Determined	SOLUBILITY IN ORGANIC SOLVENTS Variable Solubility dependent upon solvent
FLASH POINT Not applicable	VISCOSITY Not Determined
FLAMMABLE LIMITS LEL: NA UEL: NA	VAPOR DENSITY (AIR = 1) >1
AUTOIGNITION TEMPERATURE NA	EVAPORATION RATE (Water = 1) Slow

VOLATILE ORGANIC COMPOUND (VOC) INFORMATION

0.14 lbs/ gallon or 17 g / L

NOTES: None

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY Stable under normal conditions	CONDITIONS TO AVOID: Excess heat, light, incompatible materials, freezing temperatures..
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong reducing agents.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen chloride, carbon monoxide, carbon dioxide.	
HAZARDOUS POLYMERIZATION: Will not occur	CONDITIONS TO AVOID: None related to hazardous polymerization

SECTION 11 - TOXICOLOGICAL INFORMATION

Complete Product

Oral LD₅₀	LD50 is highly variable dependent upon species.
Dermal LD₅₀	Not known - product expected to be mildly to moderately irritating by contact with skin.
Inhalation LC₅₀	Not known; respirable product may cause pulmonary harm.
Irritation / Sensitization	Chemical and mechanical irritant to eyes, skin and respiratory tract.
Carcinogenicity	Product should be considered potentially carcinogenic. IARC - titanium dioxide; antimony trioxide = Group 2B. California Proposition 65 - antimony trioxide listed. ESIS - titanium dioxide; antimony trioxide=R40
Mutagenicity	Laboratory experiments have resulted in mutagenic effects. (Antimony trioxide).
Reproductive Toxicity	"This substance has caused adverse reproductive effects in laboratory animals". (Antimony trioxide).
Teratogenicity	"This substance has caused adverse fetal effects in laboratory animals" (Antimony trioxide).

Product Components

Component	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
Titanium Dioxide	13463-67-7	NE	NE
Antimony trioxide	1309-64-4	34600 mg/kg	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 If this material becomes a waste, it would be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with all local, state, and federal regulations. User is responsible for compliance with all laws and regulations. US EPA Waste Numbers: None.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated	
DOT HAZARD CLASS / Pack Group: Not Regulated REFERENCE: 49CFR, IATA, IMDG UN / NA IDENTIFICATION NUMBER: NA LABEL: NA HAZARD SYMBOLS: None	IATA HAZARD CLASS / Pack Group: Not regulated. IMDG HAZARD CLASS: Not regulated. RID/ADR HAZARD CLASS: NA ADR CLASSIFICATION: NA ADR EMERGENCY ACTION CODE: NA Hazard Identification Number (HIN): NA TDG Class / Pack Group: NA

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): **Components Listed on the TSCA inventory.**

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health:	YES	Chronic Health:	YES
Fire:	NO	Sudden Release of Pressure:	NO
Reactive:	NO		

SARA 313 REPORTABLE INGREDIENTS: Antimony Trioxide (CAS #1309-64-4).

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **CAS# 1309-64-4: 1000 lb final RQ; 454 kg final RQ.**

State Right to Know Laws: **Antimony Trioxide is on the right-to-know lists of CA, MA, MN, NJ, and PA.**

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **WARNING: THIS PRODUCT CONTAINS A CHEMICAL (Antimony Trioxide) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.**

CPR (Canadian Controlled Products Regulations): **This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. WHMIS Classifications: D2A**



IDL (Canadian Ingredient Disclosure List): **Antimony Trioxide are listed on the CIDL.**

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Components listed on the DSL.**

EINECS (European Inventory of Existing Commercial Chemical Substances): **Referenced.**

WGK Water Quality Index: **2**

EU RISK PHRASES

R2: Keep out of the reach of children.

R40: Limited evidence of a carcinogenic effect.

EU SAFETY PHRASES

S 36/37 Wear suitable protective clothing and gloves.

SECTION 16 - OTHER INFORMATION

Legend:

ACGIH American Congress of Government Industrial Hygienists
CAS Chemical Abstracts Service
EINECS European Inventory of Existing Commercial Chemical Substances
HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer
NA Not Available ND Not Determined
NE Not Established NR Not Reported
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.