

MATERIAL SAFETY DATA SHEET

Product Name:

EX-2C Low VOC Colour

Component A

Formulated to meet or exceed the Canadian Automotive refinishing VOC Guidelines for topcoats.



SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer/Supplier: Endura Manufacturing Co. Ltd.
12425 - 149 Street
Edmonton, Alberta
T5L 2J6
(Ph: (780) 451-4242 Fax: (780) 452-5079)

24-Hour Emergency Number: (613) 996-6666 (Canutec)

Product Name: EX-2C Low VOC TOPCOAT Component A.

Item Number: Varies by colour

Chemical Family: Ester, Aromatic Hydrocarbon, Ketone, Pigments

Material Use: 2 Component Coating – EX-2C Low VOC Component "A" must be mixed 1:1 with an EX-2C Low VOC Component "B"

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	C.A.S.	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES	TLV	% WT
n-butyl acetate	123-86-4	14g/kg o-r	2000 ppm/4h i-r	150 ppm	20-30
xylene	1330-20-7	4.3 g/kg o-r >2 g/kg d-rbt	5000 ppm/4h i-r	100 ppm	1 – 5
pm acetate	108-65-6	8.5 g/kg o-fr >5 g/kg d-rbt	N/A	N/A	1 – 5
ethyl 3-ethoxypropionate	763-69-9	5 g/kg o-r 10 ml/kg d-rbt	>1000 ppm/6h i-r	N/A	1 – 5
acetone	67-64-1	>9.7 g/kg o-r >20 ml/kg d-rbt	>16000 ppm/4h i-r	500 ppm	1 – 5
<u>Some colours contain</u> (*) these colours may be reformulated with no lead content when required.					
chromium hydroxide	1308-14-1	N/A	N/A	.05 mg/m ³	0 – 1
lead chromate (*)	7758-97-6	12000 mg/kg o-r	N/A	.05 ppm	0 – 50
lead sulphate (*)	7446-14-2	2000 mg/kg o-r	N/A	.15 ppm	0 – 15
molybdenum compounds n.o.s. (*)	-	N/A	N/A	N/A	0 – 5
mica	12001-26-2	N/A	N/A	3 mg/m ³	0 – 15
aluminum flake	7429-90-5	N/A	N/A	10 mg/m ³	0 – 15
carbon black	1333-86-4	>15.4 g/kg o-r >3 g/kg d-rbt	N/A	3.5 mg/m ³	0 – 5
tin oxide	18282-10-5	>20000 mg/kg o-r	N/A	2 mg/m ³	0 – 1
ferric oxide	1309-37-1	>5000 mg/kg o-r	N/A	10 mg/m ³	0 – 50
antimony trioxide	1309-64-4	N/A	N/A	N/A	0 – 5
titanium dioxide	13463-67-7	>25 g/kg o-r >10 g/kg d-rbt	>6.82 mg/l/4h	10 mg/m ³ /8h	0 – 60
titanium dioxide	1317-80-2	N/A	N/A	10 mg/m ³	0 – 10
aromatic solvent	64742-95-6	>5 g/kg o-r >3160 mg/kg d-rbt	N/A	N/A	0 – 2
stoddard solvent	8052-41-3	>5 g/kg o-r >3160 mg/kg d-rbt	N/A	100 ppm	0 – 2
dichloro dimethyl silane	68611-44-9	>5000 mg/kg o-r	N/A	10 mg/m ³	0 – 1
silica-amorphous, precip.	112926-00-8	>10000 mg/kg o-r	N/A	10 mg/m ³	0 – 15

legend: o=oral r=rat d=dermal i=inhalation rbt=rabbit fr=female rat p=intraperitoneal

** Free HDI monomer <0.15% of mixed solution (comp. A & comp. B) at time of manufacture. The monomer content may rise to 0.35% after 3-6 months storage.
See Sax, N.I. "Dangerous Properties of Industrial Materials" for more information

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SECTION 03: HAZARDS IDENTIFICATION

Eye Contact:.... Moderately irritating to eyes and can cause tissue damage.
 Skin Contact:.... Low toxicity by skin absorption, but extended contact can cause irritation and dermatitis. Skin sensitization or reddening, swelling or blistering can occur.
 Inhalation:..... Vapors are of low to moderate toxicity when inhaled and are irritating to nose, throat and other respiratory passages, especially in higher concentrations. Extended exposure can cause headaches, dizziness, nausea or even loss of muscular control and coordination, narcosis or unconsciousness.
 Ingestion:..... Liquid is of low to moderate toxicity when ingested, but can be hazardous if aspirated into lungs during swallowing or vomiting.
 Additional Information:..... Chronic hazards include narcosis, specific organ damage, permanent brain and nervous system damage or coma if extensively abused. Lead chromate and carbon black are possible carcinogens.

SECTION 04: FIRST AID MEASURES

Inhalation (acute):..... Remove to fresh air and if necessary restore breathing by giving artificial respiration. Administer oxygen if victim is breathing with difficulty.
 GET IMMEDIATE MEDICAL HELP.
 Ingestion:..... DO NOT INDUCE VOMITING. Seek medical help. Give 1 or 2 glasses water or milk, BUT ONLY IF VICTIM IS CONSCIOUS.
 Eye Contact:..... Check for and remove any contact lenses. Flush eyes IMMEDIATELY with water for 15 minutes and get immediate medical help.
 Skin Contact:..... Wash with soap and water. Clean contaminated clothing before reuse.
 Notes to Physician:..... Treatment is symptomatic. There is no specific antidote. See list of ingredients.

SECTION 05: FIRE FIGHTING MEASURES

Flash Point (°C), (TCC):..... 23.9°C
 Auto Ignition Temperature (°C): N/A
 Upper Explosive Limit (% Vol):... N/A
 Lower Explosive Limit (% Vol):..... N/A
 Extinguishing Media:..... CO₂, foam, dry chemical. Avoid using water except as a fog.
 Hazardous Combustion Products:..... CO, CO₂. Possibly Oxides of Nitrogen, Sulphur, Lead, Chromium, Antimony or Aluminum.
 Sensitivity To Mechanical Impact:..... None
 Sensitivity To Static Discharge:..... Can ignite vapors
 Special Fire Fighting Procedures:..... Wear self-contained breathing apparatus and full protective clothing. Extreme heat may cause pressure build-up in containers and possibly explosion, therefore use water to keep containers cool.
 Conditions of Flammability:..... Sparks, open flame, static discharge or extreme temperature.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak / Spill and Clean up:..... Remove all sources of ignition. The product should be contained and absorbed with inert materials and placed into a container. Do not seal the containers until any gas, which might form, has done so.

SECTION 07: HANDLING AND STORAGE

Handling Procedures:..... Avoid static charges, sparks, flames and excessive heat. Keep containers tightly closed and upright when not in use. Do not allow contact with skin or eyes, and don't breathe vapors.
 Storage Needs:..... Store in a cool, dry place.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

Eye/Type:..... Wear liquid chemical goggles or a full-face shield.
 Respiratory/Type:..... Wear a suitable air supplied respirator.
 Gloves/Clothing/Footwear/Type: Wear chemical-resistant clothing, gloves and footwear.
 Other/Type:..... Make a safety shower and eye wash facility available.
 Ventilation Requirements:..... Adequate ventilation must be assured to prevent the accumulation of dangerous amounts of vapor or mist.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State (appearance):...	Coloured liquid
Odor:.....	Solvent like
Density (g/ml):.....	1 – 1.6
Odor Threshold (ppm):.....	N/A
Vapor Pressure (@20°C):.....	180 mm Hg
Vapor Density (Air=1):.....	Heavier than air
Evaporation Rate:.....	0,18 - 3,91
Boiling Point (°C):.....	77 - 172°C
pH:.....	N/A
Solubility in Water (% W/W):...	N/A
Coefficient of Water/Oil Distribution:	N/A
Freezing Point (°C):.....	N/A
Melting Point (°C):.....	N/A
VOC (less water & exempts):.....	Please click here to request a colour specific MSDS - All mixed EX-2C Low VOC colours are < 420 grams/liter (3.5 lbs/gallon)

SECTION 10: STABILITY AND REACTIVITY

Incompatibility:.....	N/A
Reactivity Conditions:.....	Will react with oxidizing materials.
Hazardous Products of Decomposition:..	N/A

SECTION 11: REGULATORY INFORMATION

WHMIS Classification:.....	B-2, D-2A, D-2B
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SECTION 12: DISPOSAL CONSIDERATIONS

Waste Disposal:.....	Dispose of waste according to local, provincial and federal regulations. Utilize authorized centers for disposal of combustible chemical material.
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SECTION 13: TRANSPORT INFORMATION

T.D.G. Classification:.....	Shipping name: Paint. UN 1263, CI 3, PG II.
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SECTION 14: OTHER INFORMATION

Note:.....	
Prepared By:.....	Endura – Information Systems
Revision Date:.....	December 21, 2010