

SAFETY DATA SHEET

Date Issued : 5/25/2010
MSDS No : 12706.00.0111
Date Revised : 11/30/2016
Revision No : 7

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Duroct Cobalt 6%
PRODUCT CODE: 12706

MANUFACTURER

DURA Chemicals, Inc.
2200 Powell Street
Suite 450
Emeryville, CA 94608

Customer Service: 888-344-3872

24 HR. EMERGENCY TELEPHONE NUMBERS

24 Hour Emergency Phone Number 1-800-424-9300 CHEMTREC

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Category 2
Skin Sensitization, Category 1A
Target Organ Toxicity (Single exposure), Category 3
Aspiration Hazard, Category 2
Reproductive Toxicity, Category 2

Environmental:

Acute Hazards to the Aquatic Environment, Category 1
Chronic Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 4

GHS LABEL



Exclamation
mark



Health
hazard



Environment

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H319: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.
H227: Combustible liquid.
H305: May be harmful if swallowed and enters airways.
H335: May cause respiratory irritation.

Precautionary statement(s)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242: Use only non-sparking tools.

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P243: Take precautionary measures against static discharge.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P308+P313: IF exposed or concerned: Get medical advice/attention.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P331: Do NOT induce vomiting.
 P370+P378: In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.
 P501: Dispose of contents/container to an approved waste disposal plant.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Blue-violet liquid.

IMMEDIATE CONCERNS: NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by delibertaley concentrating and inhaling the contents may be harmful or fatal.

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.

SKIN: Repeated contact may cause Dermatitis.

INGESTION: May cause gastrointestinal irritation (nausea, vomiting, diarrhea) and central nervous system depression.

INHALATION: High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

MEDICAL CONDITIONS AGGRAVATED: Chronic respiratory disorders, skin disorders, liver and kidney disorders.

ROUTES OF ENTRY: Inhalation and ingestion.

TARGET ORGAN STATEMENT: May Cause (target organ or system) damage. (e.g., lung, nervous system, blood disorders, liver, kidney, immune system, cardiovascular system, thyroid, testicular, ovarian, etc.).

CANCER STATEMENT: Cobalt Compounds: IARC states that Cobalt Compounds are possibly carcenogenic to humans - Group 2B Monograph 52.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Cobalt Carboxylate	~ 40	136-52-7
Mineral Spirits (Stoddard Solvent)	~ 70	8052-41-3
Ethyl Benzene	~ 0.7	100-41-4
Naphthalene	~ 0.7	91-20-3

COMMENTS: Percentages are maximum content.

4. FIRST AID MEASURES

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EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Get immediate medical attention. Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter lungs and cause Chemical Pneumonitis. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Contact a physician.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms may include stinging, tearing, and redness.

SKIN: Symptoms may include redness and burning of the skin. May cause skin defatting with prolonged exposure.

INGESTION: Symptoms of ingestion may include nausea, vomiting, and diarrhea.

INHALATION: Symptoms may include dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness.

ACUTE TOXICITY: May cause skin irritation and may cause eye and upper respiratory tract irritation.

CHRONIC EFFECTS: Chronic respiratory disorders, skin disorders, liver and kidney disorders.

NOTES TO PHYSICIAN: Contains Petroleum Distillates.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Combustible Liquid

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide and Carbon Dioxide.

EXPLOSION HAZARDS: Unopened containers may rupture in a fire situation.

FIRE FIGHTING PROCEDURES: During fire, water spray can scatter flames and should be used by experienced firefighters. Self-Contained Breathing Apparatus (SCBA) should be used when firefighting. Wear appropriate protective equipment as conditions warrant. Stop spill/leak if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk.

FIRE FIGHTING EQUIPMENT: Self-Contained Breathing Apparatus (SCBA) and appropriate Turn Out Gear.

FIRE EXPLOSION: Vapors may cause explosive mixtures with air. Vapors may travel to source of ignition and flash back. Runoff to sewers may create fire or explosion hazards.

SENSITIVE TO STATIC DISCHARGE: All containers should be appropriately grounded to prevent static build up.

SENSITIVITY TO IMPACT: None

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce Carbon Monoxide and Carbon Dioxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LARGE SPILL: Eliminate all ignition sources. Prevent spilled material from entering storm sewers and waterways. Stop spill if it can be done with minimal risk. Keep unauthorized personnel from area.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep containers closed when not in use Store away from heat, sparks, and open flame. Bond and ground all equipment when transferring from one vessel to another.

HANDLING: Follow all MSDS/label precautions even after container is emptied because it may retain product

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residues.

STORAGE: Store in closed containers away from extreme heat, flame or strong oxidizing agents.

STORAGE TEMPERATURE: 0°C (32°F) Minimum to 49°C (120°F) Maximum

SHELF LIFE: Five (5) years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Cobalt Carboxylate	TWA		0.1		0.02		
Mineral Spirits (Stoddard Solvent)	TWA	100	525	100	525	NL	NL
	STEL	NL	NL	NL	NL	NL	NL

ENGINEERING CONTROLS: If current ventilation practices are not adequate to maintain airborne concentration below the established exposure limits, additional ventilation or exhaust systems may be required.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear Safety Glasses with side shields or Chemical Goggles.

SKIN: Depending on site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact.

RESPIRATORY: Select equipment to provide protection from listed Hazardous Ingredients. Depending on site-specific environmental conditions, appropriate NIOSH approved respirators should be used to keep exposure below exposure levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mineral Spirits

APPEARANCE: Liquid.

COLOR: Blue-violet

FLASH POINT AND METHOD: 40°C (104°F) PMcc

FLAMMABLE LIMITS: 1.0 to 6.0

VAPOR PRESSURE: 2 mm Hg

VAPOR DENSITY: 4.9 Air = 1

BOILING POINT: (300°F)

SOLUBILITY IN WATER: None

EVAPORATION RATE: < 1 Butyl Acetate = 1

SPECIFIC GRAVITY: 0.85 to 0.950 ASTM D1475-98

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable.

CONDITIONS TO AVOID: Extreme heat, open flame.

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INCOMPATIBLE MATERIALS: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 1300 mg/kg

Notes: Rat.

CHRONIC: Chronic respiratory disorders, skin disorders, liver and kidney disorders.

CARCINOGENICITY

IARC: Cobalt Compounds: IARC states that Cobalt Compounds are possibly carcinogenic to humans - Group 2B Monograph 52.

SENSITIZATION: Cobalt Compounds: May cause respiratory sensitization.

TARGET ORGANS: May cause nervous system, kidney or liver disorders.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with Federal, State and local regulations.

EMPTY CONTAINER: In accordance with 40CFR 261.7.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Combustible Liquid n.o.s. (contains Petroleum Distillates)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: NA1993

PACKING GROUP: III

OTHER SHIPPING INFORMATION: 49CFR 173.150: This material may be reclassified as combustible liquid. It can be shipped as a non-hazardous material if the container is under 120 US gallons.

U.S. CUSTOMS HARMONIZATION NUMBER: 3211.00.0000

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Flammable Liquid n.o.s. (contains Petroleum Distillates)

UN NUMBER: UN1993

HAZARD CLASS: 3

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Flammable Liquid n.o.s. (contains Petroleum Distillates)

UN/NA NUMBER: UN1993

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Flammable Liquid n.o.s. (contains Petroleum Distillates)

UN/NA NUMBER: UN1993

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

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MARINE POLLUTANT #1: P

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: N096 Cobalt Compounds.

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS	Comments
Cobalt Carboxylate	~ 40	136-52-7	Percentages are maximum content.
Naphthalene	~ 0.7	91-20-3	

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Naphthalene	~ 0.7	100 Pounds

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Cobalt Carboxylate	136-52-7
Mineral Spirits (Stoddard Solvent)	8052-41-3
Naphthalene	91-20-3

TSCA STATUS: Listed on Inventory.

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Mineral Spirits (Stoddard Solvent)	California Hazardous Substance List; Idaho Air Pollutant List; Massachusetts Hazardous Substances; Minnesota Hazardous Substances; Pennsylvania Hazardous Substances; Washington Permissible Exposure Limits for Air Contaminants; Wisconsin Hazardous Air Contaminants.
Naphthalene	California Hazardous Substance List, Delaware Air Quality Management List, Idaho Air Pollutant List, Illinois Toxic Air Contaminant List, Maine Hazardous Air Pollutant List, Massachusetts Hazardous Substances, Minnesota Hazardous Substances, New Jersey RTK Hazardous Substance List, New York List of Hazardous Substances, Pennsylvania Hazardous Substances, Washington Permissible Exposure for Air Contaminants, Wisconsin Hazardous Air Contaminants.

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Chemical Name	Wt.%	Listed
Naphthalene	~ 0.7	Cancer

FDA (FOOD AND DRUG ADMINISTRATION): 21CFR 175.300 (xxii) Resinous and Polymeric Coatings.

DEA (DRUG ENFORCEMENT PRECURSOR & ESSENTIAL CHEMICALS) LISTED SUBSTANCE: None

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CANADA

DOMESTIC SUBSTANCE LIST (INVENTORY): Listed on Inventory.

COMMENTS Listed on Inventory: EU (EINECS); Australia (AICS); China (IECSC); Japan (MITI); Korea (KECI); Philippine (PICCS); New Zealand (NZIoC).

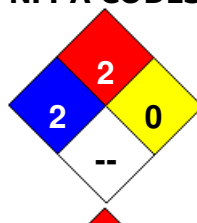
16. OTHER INFORMATION

REVISION SUMMARY: This SDS replaces the 5/10/2016 SDS. Revised: **Section 14:** AIR (ICAO/IATA) - UN/NA NUMBER ROAD AND RAIL (ADR/RID) - UN NUMBER VESSEL (IMO/IMDG) - UN/NA NUMBER. **Section 15:** WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM), CALIFORNIA PROPOSITION 65, WHMIS CLASS.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		2
PHYSICAL HAZARD		0
PERSONAL PROTECTION		B

NFPA CODES



HMIS RATINGS NOTES: *Chronic Health Hazard.

MANUFACTURER DISCLAIMER: THE PRESENT INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE, BUT WITHOUT ANY GUARANTEE. USERS SHOULD SATISFY THEMSELVES ON THE SUITABILITY OF THIS PRODUCT FOR THEIR PURPOSES. IF NECESSARY, THEY CAN CONSULT OUR TECHNICAL STAFF.