NATURAL PIGMENTS

Safety Data Sheet
Cobalt Drier

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Cobalt Drier
Product number	500-CODR02, 500-CZCD02
Brand	Rublev Colours

1.2 Other means of identification

Cobalt Drier
Cobalt System Drier

1.3 Recommended use of the chemical and restrictions on use

For use with artist paint. Not for use by children.

1.4 Supplier's details

Name	Natural Pigments
Address	291 Shell Lane Willits CA 95490 US
Telephone	707-459-9998
email	service@naturalpigments.com

1.5 Emergency phone number

INFOTRAC 1-800-424-9300 within North America or +1-352-323-3500 domestically or internationally.
Account Number 115514

SECTION 2: Hazard identification

General hazard statement

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Toxic to reproduction, Cat. 2
- Skin corrosion/irritation, Cat. 2
- Carcinogenicity, Cat. 2
- Eye damage/irritation, Cat. 2A
- Sensitization, skin, Cat. 1
- Specific target organ toxicity (single exposure), Cat. 3
- Flammable liquids, Cat. 3

2.2 GHS label elements, including precautionary statements

Pictograms

Signal word **Warning**

Hazard statement(s)

H226	Flammable liquid and vapor
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing fume, mist, vapors, or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, and eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical attention.
P312	Call a POISON CENTER, if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice.
P333+P313	If skin irritation or rash occurs: Get medical attention.

P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry foam to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents and container to licensed waste facility.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)

Concentration	>= 10 - <= 20 % (weight)
EC no.	205-250-6
CAS no.	136-52-7
- Toxic to reproduction, Cat. 2	
H361d	

2. Solvent naphtha (petroleum), light aromatics

Concentration	40 - 80 % (weight)
CAS no.	64742-48-9

3. 2-ETHYLHEXANOIC ACID

Concentration	>= 0 - <= 1 % (weight)
EC no.	205-743-6
CAS no.	149-57-5
Index no.	607-230-00-6
- Toxic to reproduction, Cat. 2	
H361d	

4. N-NONANE

Concentration	< 0 - <= 5 % (weight)
EC no.	203-913-4
CAS no.	111-84-2

5. PROPIONIC ACID

Concentration	<= 3 % (weight)
EC no.	201-176-3
CAS no.	79-09-4
Index no.	607-089-00-0
- Skin corrosion/irritation, Cat. 1B	
H314	Causes severe skin burns and eye damage
SCLs/M-factors/ATEs	STOT SE 3; H335: C ≥ 10 %
	Skin Corr. 1B; H314: C ≥ 25 %
	Skin Irrit. 2; H315: 10 % ≤ C < 25 %
	Eye Irrit. 2; H319: 10 % ≤ C < 25 %

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	Call a poison center or doctor if you feel unwell. Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
In case of skin contact	Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Take off contaminated clothing and wash it before reuse. Acute and delayed symptoms and effects: Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice. Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary
No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical
Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors, spray. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Eating, drinking and smoking is prohibited. Wash hands with soap and water after handling. For precautions see section 2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 111-84-2
N-NONANE
AU/SWA (Australia): 200 ppm; 1050 mg/m3 TWA inhalation

CAS: 79-09-4
Propionic acid
AU/SWA (Australia): 10 ppm; 30 mg/m3 TWA inhalation

8.2 Appropriate engineering controls
Use ventilation adequate to keep exposures (airborne levels of fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms

Eye/face protection
Safety glasses. If splash hazard, wear faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Wear protective gloves. Consult manufacturer specifications for further information.

Body protection
Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards
No data available.

Environmental exposure controls
Do not let product enter drains.

SECTION 9: Physical and chemical properties

Appearance, such as physical state and colour	Liquid
Odour	Petroleum
Odour threshold	No data available.
pH	No data available.
Melting point and freezing point	No data available.
Initial boiling point and boiling range	163°C (325.4°F)
Flash point	39°C (102.2°F)
Evaporation rate	<1 (butyl acetate = 1)
Flammability, in the case of solids and gases	No data available.
Upper and lower flammability or explosive limits	No data available.
Vapour pressure	No data available.
Vapour density	>1 (air = 1)
Relative density	0.86 to 0.91
Solubility	Insoluble in cold water.
Partition coefficient — n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

Additional properties

Physical state	Liquid
Colour	Blue-Violet
Explosive properties	No data available.
Oxidising properties	No data available.

Particle characteristics
No data available.

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
Contact with incompatible materials. Sources of ignition. Exposure to heat.

10.2 Chemical stability
Stable under normal storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials
Reactive or incompatible with oxidizing materials.

10.6 Hazardous decomposition products
No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Symptoms (including delayed and immediate effects):
Inhalation: May cause respiratory irritation. Symptoms may include cough, sneezing,nasal discharge, headache, hoarseness, and nose and throat pain.
Ingestion: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin corrosion/irritation
Causes skin irritation. Symptoms may include localized redness, swelling, and itching.

Serious eye damage/irritation
Causes serious eye irritation. Symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Respiratory or skin sensitization
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that has been reported to be carcinogenicity based on its IARC, ACGIH,NTP, or EPA classification

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

Reproductive toxicity
No data available.

Specific target organ toxicity (STOT) - single exposure
Naphtha (pertroleum), hydrotreated heavy
May cause respiratory irritation. May cause drowsiness or dizziness

Specific target organ toxicity (STOT) - repeated exposure
Naphtha (pertroleum), hydrotreated heavy
May cause damage to lungs through prolonged or repeated exposure.

Aspiration hazard
Naphtha (pertroleum), hydrotreated heavy
May be fatal if swallowed and enters airways

Additional information
2-ETHYLHEXANOIC ACID:
TOXICITY:

Typ. Dose	Mode	Species	Amount Unit
LD50	Oral	Rat	3000 mg/kg
LD50	Skin	Rabbit	1260 mg/kg

AQTX/TLM96: Not available

SAX TOXICITY EVALUATION:
THR: MODERATE via oral and dermal routes. MILD skin irritant. SEVERE irritant; LOW fire hazard.

CARCINOGENICITY: Not available

MUTAGENICITY: Not available

TERATOGENICITY: Not available

STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: None
ACGIH: None
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): 1
Flammability (F): 1
Reactivity (R): 0
H1: Materials only slightly hazardous to health (see NFPA for details).
F1: Materials that must be preheated before ignition can occur (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

OTHER TOXICITY DATA:
Skin and Eye Irritation Data:
Skin-Rabbit 10 mg/24H
Skin-Rabbit 450 mg open MLD
Eye-Rabbit 4500 ug SEV
Status: Reported in EPA TSCA Inventory, 1980

EPA TSCA 8(a) Preliminary Assessment Information Proposed Rule

N-NONANE:
TOXICITY:

Typ. Dose	Mode	Species	Amount Unit
LC50	Inhale	Rat	3200 ppm/4H
LD50	Intravenus	Mus	218 mg/kg

AQTX/TLM96: Not available

SAX TOXICITY EVALUATION:
THR: Poison by intravenous route. Mildly toxic by inhalation. Irritating to the respiratory tract. Narcotic in high concentrations.

CARCINOGENICITY: Not available

MUTATION DATA: Not available

TERATOGENICITY: Not available

STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: Federal Register (1/19/89)
Final Limit: PEL-TWA 200 ppm [015,545,610]
ACGIH: TLV-TWA 200 ppm [015,415,421,610]
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): 0
Flammability (F): 3
Reactivity (R): 0
H0: Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material (see NFPA for details).
F3: Materials which can be ignited under almost all normal temperature conditions (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

OTHER TOXICITY DATA:
Standards and Regulations: DOT-IMO: Flammable or Combustible liquid; Label: Flammable liquid
Status: EPA TSCA Chemical Inventory, 1986
EPA TSCA Test Submission (TSCATS) Data Base, September 1989

PROPIONIC ACID:
TOXICITY:
typ. dose mode specie amount units other
LD50 orl rat 3500 mg/kg
LD50 ipr rat 200 mg/kg
LD50 ivn mus 625 mg/kg
LD50 skn rbt 500 mg/kg

AQTX/TLM96: 1000-100 ppm

SAX TOXICITY EVALUATION:
THR = MODERATE dermal; MODERATE oral and intravenous route. HIGH intraperitoneal route.

CARCINOGENICITY: Not available

MUTATION DATA:
Not available

TERATOGENICITY (Reproductive Effects Data): Not available

STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: Federal Register (1/19/89)
Final Limit: PEL-TWA 10 ppm [610]
ACGIH: TLV-TWA 10 ppm; STEL 15 ppm, with a notice of intent to delete STEL
[610]
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): 2
Flammability (F): 2
Reactivity (R): 0
H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).
F2: Materials which must be moderately heated before ignition will occur (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

OTHER TOXICITY DATA:
Skin and Eye Irritation Data:
skn-rbt 495 mg open SEV
eye-rbt 990 ug SEV
Review: Toxicology Review
Standards and Regulations: DOT-Hazard: Corrosive Material; Label: Corrosive
DOT-Hazard: Corrosive Material; Label: Corrosive, solution
DOT-IMO: Corrosive Material; Label: Corrosive,
Flammable Liquid
Status: Reported in EPA TSCA Inventory, 1983
Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity
Naphtha (pertroleum), hydrotreated heavy

Result	Species	Exposure
Acute LC50 >100mgl	Algae	72 Hours

Persistence and degradability
No data available on product

Bioaccumulative potential
Naphtha (pertroleum), hydrotreated heavy

BCF	Potential
10 to 2500	High

Mobility in soil
No data available.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Packaging disposal
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
UN Number: UN1993
Class: 3
Packing Group: III
Proper Shipping Name: Flammable liquids, n.o.s.
Reportable quantity (RQ):
Marine pollutant: This product may be re-classified as “Combustible Liquid,” unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gallons) of combustible liquids that are marine pollutants are regulated as hazardous materials unless transported by vessel. This product is regulated as a marine pollutant when transported on inland waterways, in size of ≤5 L or ≤5 kg, or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions §§ 173.24 and 173.24a.

IMDG
UN Number: UN1993
Class: 3
Packing Group: III
EMS Number:
Proper Shipping Name: Flammable liquids, n.o.s.

IATA
UN Number: UN1993
Class: 3
Packing Group: III
Proper Shipping Name: Flammable liquids, n.o.s.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

New Jersey Right To Know Components
Common name: 2-ETHYLHEXANOIC ACID
CAS number: 149-57-5

California Prop. 65 components
Chemical name: 2-ETHYLHEXANOIC ACID
CAS number: 149-57-5
08/07/2009 - Developmental

New Jersey Right To Know Components
Common name: NONANE
CAS number: 111-84-2

Pennsylvania Right To Know Components
Chemical name: Nonane
CAS number: 111-84-2

Massachusetts Right To Know Components
Chemical name: Propionic acid
CAS number: 79-09-4

New Jersey Right To Know Components
Common name: PROPIONIC ACID
CAS number: 79-09-4

Pennsylvania Right To Know Components
Chemical name: Propanoic acid
CAS number: 79-09-4

HMIS Rating

Cobalt Drier	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

NFPA Rating

SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Natural Pigments be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Natural Pigments has been advised of the possibility of such damages