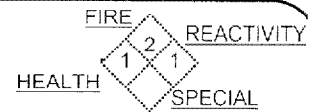


HAZARD RATING

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT
* = CHRONIC HEALTH HAZARD - SEE SECTION 4



MATERIAL SAFETY DATA SHEET

Cobalt Promoter

1. IDENTIFICATION & PHYSICAL DATA

PRODUCT NAME: Cobalt Promoter

VISCOSITY: 725 ± 50 cps

Chemical Family: Metal Carboxylate

BOILING POINT: 315-385F

VAPOR DENSITY: >1

CHEMICAL NAME &
SYNONYMS:

SOLUBILITY IN WATER: slight

PERCENT VOLATILE: 40% ± 2

FORMULA: N/A

SPECIFIC GRAVITY: 1.01 ± 0.01

Water = 1

APPEARANCE &

VAPOR PRESSURE: 2.6

mmHg

ODOR: Dark blue to purple liquid, oily odor

EVAPORATION RATE: <1

Butyl Acetate = 1

MELTING OR FREEZING POINT: N/A

2. HAZARDOUS INGREDIENTS

NAME	CAS#	WT. %	TWA /STEL (OSHA-ACGIH-TRANSPON)
Co 2-Ethylhexanoate	136-52-7	65	0.05 mg/m3 PEL-TWA OSHA and ACGIH
Mineral Spirits	8052-41-3	35	100 ppm OSHA 525 mg/m3 ACGIH

--- NOT ESTABLISHED

*** THE SPECIFIC CHEMICAL IDENTITY AND/OR WEIGHT IS BEING WITHHELD AS A TRADE SECRET

3. FIRE AND EXPLOSION DATA

FLASHPOINT: 104F min.

AUTO IGNITION TEMP.: N/E

LOWER EXPLOSION LIMIT: N/E

UPPER EXPLOSION LIMIT: N/E

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO2, dry chemical, water fog

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus with a full face piece operated in pressure demand other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

4. REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOID:

Excessive heat or contact with sparks or flames

MATERIALS TO AVOID(INCOMPATIBILITY):

Contact with strong oxidizing agents (e.g. nitric acid, permanganates, organic peroxides etc.)

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, various hydrocarbons

This information contained herein based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as

stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk on his use of the material.

5. HEALTH HAZARD DATA**EMERGENCY AND FIRST AID PROCEDURES:**

EYE CONTACT: Flush with large amounts of water, lifting upper and lower lid occasionally. Get medical attention.

SKIN CONTACT: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Wash contaminated clothing before re-use.

INGESTION: Do not induce vomiting. Keep person warm, quiet and get medical attention. Aspiration of the material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

INHALATION: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, use artificial respiration. Keep person warm and quiet. Get medical attention.

EFFECTS OF OVEREXPOSURE AND TOXICITY INFORMATION:

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of the material into the lungs can cause chemical pneumonitis which can be fatal.

INHALATION: Can cause nasal and respiratory irritation, dizziness, fatigue, headache, unconsciousness and even asphyxiation.

SKIN CONTACT:

Prolonged or repeated contact can cause moderate irritation, defatting or dermatitis.

SKIN ABSORPTION:**EYE CONTACT:**

Can cause severe irritation, redness, tearing and blurred vision.

CHRONIC EFFECTS OF OVEREXPOSURE:

Carcinogenicity- NTP=no IARC=yes OSHA=no

IARC has classified Cobalt and Cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans.

See IARC Monograph, Volume 52.

6. SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Large spill: Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth or floor absorbent and shoveled into containers. Prevent run-off to sewers, streams or other bodies of water.

WASTE DISPOSAL METHOD:

Waste product may have a flash point below 140F and must be treated as a Hazardous (RCRA IGNITABLE) waste. Dispose of in accordance with all Federal, state and local regulations. Never use welding or cutting torch on or near drum (even empty) because product (even residue) can ignite explosively.

7. SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION:**

Use OSHA, NIOSH/MSHA approved respirators

VENTILATION:

Mechanical or local to maintain levels below TLV's

PROTECTIVE GLOVES:

Resistant (e.g. neoprene)

EYE PROTECTION:

Splash proof goggles per OSHA or equal

OTHER PROTECTIVE EQUIPMENT:

To prevent repeated or prolonged skin contact, wear impervious clothing and boots

8. SPECIAL PRECAUTIONS

DO NOT MIX COBALT WITH CHP (CUMENE HYDROPEROXIDE) INITIATOR. VIOLENT REACTION WILL OCCUR.

9. ADDITIONAL RIGHT TO KNOW COMPOSITION INFORMATION

This information is provided in conjunction with the ingredient information in Section 2 to meet various regulatory composition requirements.

<u>INGREDIENT</u>	<u>CAS#</u>	<u>LISTS</u>
Cobalt Compounds	N/A	

PA1= Pennsylvania Hazardous Substance List PA2= Pennsylvania Special Hazardous Substance List MA1= Massachusetts Hazardous Substance List
MA2= Massachusetts Extrordinary Hazardous Substance List NJ1= New Jersey Workplace Hazardous Substances List
NJ2= New Jersey Special Health Hazards List CN= Canadian Ingredient Disclosure List

10. SARA TITLE III INFORMATION

This product contains the following chemicals subject to the reporting requirements of Section 313 of The Emergency Planning and Commu Response Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material

<u>COMPONENT</u>	<u>CAS#</u>	<u>WEIGHT%</u>
Cobalt Compounds	N/A	65

SARA Section 311 and 312 hazard classification(s) for this product are:

11. RCRA INFORMATION

Since this product is not sold as a waste, we have not tested it as a waste. Based on our knowledge of the product, its raw materials and processes employed during its manufacture, we believe it is unlikely that this product is a hazardous waste for Federal RCRA purposes. We recommend that you carry out your own tests and evaluations prior to discarding any materials.

12. CERCLA INFORMATION

N/A

13. CALIFORNIA PROPOSITION 65 INFORMATION

N/A

14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Driers, Paint or Varnish Liquid N.O.S.

D.O.T. HAZARD CLASS: Combustible Liquid - See 49 CFR 173.118(a)

D.O.T. LABEL(S): Subject to HMR-181 only in 110 gallon container or larger

D.O.T. UN/NA NUMBER: UN 1168

15. OTHER INFORMATION

Chemical is on TSCA Inventory.