SAFETY DATA SHEET

Cobalt Napthenate

Version 2 · issued 15 September 2026

1. IDENTIFICATION

Product Identifiers

Product Name	Cobalt Napthenate
Other Names	Not available.
Product Number(s)	12500, 12501, EMS12500, EMS12501
CAS Number	Not available.

Recommended use of the chemical and restriction on use

Laboratory chemicals

Company Details

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS02 Flame
Flam. Liq. 3 H226 Flammable liquid and vapour.
GHS08 Health Hazard
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2 H351 Suspected of causing cancer.
STOT RE1 H371 Causes damage to the central nervous system through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Label Elements

Flammable • Health hazard

Signal Words	Danger
Hazard Statement(s)	Hazard-determining components of labelling: Naphthenic acids, cobalt salts Solvent naphtha (petroleum), medium aliph. Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to the central nervous system through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary Statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear respiratory protection.

Primary route(s) of entry

inhalation is important because the product is classified as a respiratory sensitiser (H334). Skin contact is also significant because of the skin sensitisation (H317) classification.

Human Health

Inhalation — If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Ingestion — immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Eyes — Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin — (or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Environment

In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Naphthenic acids, cobalt salts	61789-51-3	>50-<=100%	Mixtures
Solvent naphtha (petroleum), medium aliph	64742-88-7	>25-<=50%	Mixtures

4. FIRST AID MEASURES

Ingestion

If symptoms persist consult doctor.

Inhalation

Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

Skin Contact

Immediately wash with water and soap and rinse thoroughly.

Eye Contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Other Information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

5. FIREFIGHTING MEASURES

Suitable extinguishing equipment

Fire — CO2, sand, extinguishing powder. Do not use water.

HAZCHEM — For safety reasons unsuitable extinguishing agents: Water with full jet.

Special protective equipment and precautions for fire fighters

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

Environmental precautions
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/surface or ground water.

Methods and materials for containment and clean up
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents.
· PAC-1:
None of the ingredients is listed.
· PAC-2:
None of the ingredients is listed.
· PAC-3:
None of the ingredients is listed.

7. HANDLING AND STORAGE

Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Keep respiratory protective device available.

Conditions for safe storage
Keep container tightly sealed.
Protect from heat and direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Engineering controls
Keep away from foodstuffs, beverages, and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Personal protective equipment

Eye and face protection
Tightly sealed goggles.

Skin protection
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection
Not available.

Respiratory protection
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Fluid, coloured according to product specification.
Odour	Characteristic.
pH	not determined.
Vapour Pressure	6.6 hPa (5 mm Hg)
Density	at 20 °C (68 °F): 0.9675 g/cm³ (8.07379 lbs/gal)
Boiling Point	220°C
Melting Point	Undetermined
Solubility	Not miscible or difficult to mix.
Specific Gravity of Density	Not available.
Flash Point	40 °C (104 °F)
Flammable (Explosive) Limits	Lower: 0.6 Vol % Upper: 6.5 Vol %
Ignition Temperature	265 °C (509 °F)
Formula	Variable — commonly represented as Co(RCOO)2

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.

11. TOXICOLOGICAL INFORMATION

Acute effects	64742-88-7 Solvent naphtha (petroleum), medium aliph. Oral LD50 >6500mg/kg (rat) Dermal LD50 >3000mg/kg (Rabbit) Inhalative LC50/4h >14mg/l (rat)
Eye contact	Irritating effect.
Skin contact	Irritant to skin and mucous membranes. Sensitisation possible through skin contact.
Ingestion	Not available.
Inhalation	Sensitisation possible through inhalation.
Chronic effects	Carcinogenic categories · IARC (International Agency for Research on Cancer) 61789-51-3 Naphthenic acids, cobalt salts 2B · NTP (National Toxicology Program): None of the ingredients is listed. · OSHA-Ca (Occupational Safety Health Administration): None of the ingredients is listed.
Toxicity and irritation	Harmful Irritant Carcinogenic

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic for fish.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	Water hazard class 3: extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.

13. DISPOSAL CONSIDERATIONS

General information

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

ADG label required
Marine pollutant • Class 3 Flammable liquid

HAZCHEM	For safety reasons unsuitable extinguishing agents: Water with full jet.
UN Number	UN1300
Proper shipping name	1300 TURPENTINE SUBSTITUTE solution, ENVIRONMENTALLY HAZARDOUS.
Transport hazard class	Class 3 Flammable liquids.
Packing group	III
Environmental hazard	Product contains environmentally hazardous substances: Naphthenic acids, cobalt salts. Marine pollutant: Yes (DOT) Symbol (fish and tree)
Special precautions for users	Warning: Flammable liquids. Hazard identification number (Kemler Code): 30 EMs Number: F-E,S-E Stowage Category: A
Additional information	DOT · Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L · Remarks: Special marking with the symbol (fish and tree). · ADR · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · IMDG · Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · UN "Model Regulation": UN 1300 TURPENTINE SUBSTITUTE SOLUTION, 3, III, ENVIRONMENTALLY HAZARDOUS

15. REGULATORY INFORMATION

Poisons Schedule Number	None of the ingredients is listed.
Other Information	Sara · Section 355 (extremely hazardous substances): None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): 61789-51-3 Naphthenic acids, cobalt salts · TSCA (Toxic Substances Control Act): All components have the value ACTIVE. Hazardous Air Pollutants 61789-51-3 Naphthenic acids, cobalt salts Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories · EPA (Environmental Protection Agency): None of the ingredients is listed. · TLV (Threshold Limit Value established by ACGIH): None of the ingredients is listed. · NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed. Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases. A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

SDS preparation date	15 September 2026
Comments	Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Asp. Tox. 1: Aspiration hazard – Category 1
References	Electron Microscroscopy Science SDS "COBALT NAPTHENATE". 13/04/2020 https://www.emsdiasum.com/docs/technical/msds/12500.pdf?utm_source=chatgpt.com

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