

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)
Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

Creation Date: 20-08-2026

Revision Date: 18-07-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name: Cobalt octoate, 8.5% toluene
Product Code: C 6709
CAS No: 136-52-7

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Flammable liquids, Category 3
Eye irritation, Category 2
Skin sensitisation, Category 1
Reproductive toxicity, Category 1B

Aspiration hazard, Category 1

Short-term (acute) aquatic hazard,
Category 1
Long-term (chronic) aquatic hazard,
Category 3

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms
Signal word
Hazard statements

Supplemental Hazard
Statements
Precautionary
statements

H226: Flammable liquid and vapour.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H360FD: May damage fertility. May damage the unborn child.
H304: May be fatal if swallowed and enters airways.
H400: Very toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

: Danger
: H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
H410 Very toxic to aquatic life with long lasting effects.
: EUH066 Repeated exposure may cause skin dryness or cracking.

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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P301 + P310 IF SWALLOWED: Immediately call a
POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off
immediately all contaminated clothing.
Rinse skin with water.
P331 Do NOT induce vomiting.

Hazardous components which must be listed on the label:
Cobalt (II) 2-ethylhexanoate
Alkanes, C10-13-iso

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H317

H304

H360FD

Precautionary Statements

P280

P301 + P310

P331

Supplemental Hazard information (EU)

EUH066

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Restricted to professional users.

:

Danger

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

May damage fertility. May damage the unborn child.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
Do NOT induce vomiting.

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
Cobalt(II) 2-ethylhexanoate	136-52-7 205-250-6	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 1B; H360FD Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 10	>= 50 - < 70
Alkanes, C10-13-iso-	68551-17-7 271-366-9	Asp. Tox. 1; H304 EUH066	EUH066 >= 30 - < 50

*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, or the annual tonnage does not require a registration.
For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower. Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water.

Call in ophthalmologist.

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Remove contact lenses.

If swallowed : After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free.

Pulmonary failure possible after aspiration of vomit.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam

Carbon dioxide (CO₂)

Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

fire fighting

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products

Carbon oxides

Cobalt/cobalt oxides

5.3 Advice for firefighters

Special protective

equipment for firefighters

Stay in danger area only with self-contained breathing

apparatus. Prevent skin contact by keeping a safe

distance or by wearing suitable protective clothing.

Further information : Remove container from danger zone and cool with water.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:

Do not breathe vapours, aerosols.

Avoid substance contact.

Ensure adequate ventilation.

Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions

Do not let product enter drains.

Risk of explosion.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up carefully with liquid-absorbent material (e.g.

Chemisorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal considerations see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

Advice on protection

against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Further information on

storage conditions

Keep container tightly closed in a dry and wellventilated place.

Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorised persons.

Storage class (TRGS 510) : 3, Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses

Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,4 mm

Protective index : Full contact

Manufacturer : Camatril®

Material : Nitrile rubber

Break through time : 30 min

Glove thickness : 0,2 mm

Protective index : Splash contact

Manufacturer : Dermatril®

Remarks : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Skin and body protection : Flame retardant antistatic protective clothing.

Respiratory protection : required when vapours/aerosols are generated.

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Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Color	: No data available
Odor	: No data available
Melting point	: No data available
Boiling point/boiling range	: 179 - 210 °C (1.013 hPa)
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: 40 °C Method: closed cup
Autoignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Water solubility	: No data available
Partition coefficient: noctanol/water	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Density	: 0,978 - 1,037 g/cm3
Relative vapour density	: No data available
9.2 Other information	
Explosives	: Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Molecular weight	: 345,34 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Hazardous reactions : Violent reactions possible with:

Oxidizing agents

10.4 Conditions to avoid

Conditions to avoid : Heating.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Cobalt (II) 2-ethylhexanoate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,866 mg/l

End point: mortality

Exposure time: 96 h

Test Type: semi-static test

Analytical monitoring: yes

Method: US-EPA GLP: yes

Toxicity to algae/aquatic plants

ErC50 (Pseudokirchneriella subcapitata): 0,095 mg/l

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201 GLP: yes

M-Factor (Acute aquatic toxicity) 10

Toxicity to microorganisms

EC50 (activated sludge): 120 mg/l

End point: Growth rate

Exposure time: 30 min

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 209 GLP: yes

Toxicity to fish (Chronic toxicity)

NOEC: 0,9 mg/l

End point: mortality

Exposure time: 7 d

Species: Pimephales promelas (fathead minnow)

Test Type: semi-static test

Analytical monitoring: yes

Method: US-EPA GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC: 0,003 mg/l End point: reproduction rate

Exposure time: 7 d

Species: Ceriodaphnia dubia (water flea)

Test Type: semi-static test

Analytical monitoring: yes

Method: US-EPA GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Alkanes, C10-13-iso-

Toxicity to fish : Remarks: No data available

12.2 Persistence and degradability

Components:

Cobalt(II) 2-ethylhexanoate:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge

Concentration: 10 mg/l

Result: Readily biodegradable.

Biodegradation: 60 %

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Exposure time: 10 d
Method: OECD Test Guideline 301B GLP: yes
Alkanes, C10-13-iso-:
Biodegradability : Remarks: No data available
12.3 Bioaccumulative potential

Components:
Cobalt (II) 2-ethylhexanoate:
Partition coefficient: noctanol/water
Remarks: Not applicable for inorganic substances
Alkanes, C10-13-iso-:

Bioaccumulation : Remarks: No data available
12.4 Mobility in soil

Components:
Alkanes, C10-13-iso-:
Stability in soil : Remarks: No data available
12.5 Results of PBT and vPvB assessment

Product:
Assessment : This substance/mixture contains no components
considered to be either persistent, bioaccumulative
and toxic (PBT), or very persistent and very
bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components
considered to have endocrine disrupting properties
according to REACH Article 57(f) or Commission
Delegated regulation (EU) 2017/2100 or Commission
Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available
12.7 Other adverse effects

Components:
Alkanes, C10-13-iso-:
Additional ecological information
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance
with the national and local regulations. Leave
chemicals in original containers. No mixing with other
waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1268
IMDG : UN 1268
IATA : UN 1268

14.2 UN proper shipping name

ADR : PETROLEUM DISTILLATES, N.O.S.
IMDG : PETROLEUM DISTILLATES, N.O.S.
(Cobalt(II) 2-ethylhexanoate)
IATA : Petroleum distillates, n.o.s.

14.3 Transport hazard class(es)

Class Subsidiary risks
ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR : III
Packing group : F1
Classification Code

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Hazard Identification Number	: 30
Labels	: 3
Tunnel restriction code	: (D/E)
IMDG	
Packing group	: III
Labels	: 3
EmS Code	: F-E, S-E
IATA (Cargo)	
Packing instruction (cargo aircraft)	: 366
Packing instruction (LQ)	: Y344
Packing group	: III
Labels	: Class 3 - Flammable liquids
IATA_P (Passenger)	
Packing instruction (passenger aircraft)	: 355
Packing instruction (LQ)	: Y344
Packing group	: III
Labels	: Class 3 - Flammable liquids
14.5 Environmental hazards	
ADR	
Environmentally hazardous	: yes
IMDG	
Marine pollutant	: yes
14.6 Special precautions for user	
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.	
14.7 Maritime transport in bulk according to IMO instruments	
Not applicable for product as supplied.	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)
Conditions of restriction for the following entries should be considered:

Number on list 3

Number on list 30: Cobalt(II) 2-ethylhexanoate

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

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Seveso III: Directive 2012/18/EU of the
European Parliament and of the Council
on the control of major-accident hazards
involving dangerous substances.

P5c FLAMMABLE LIQUIDS

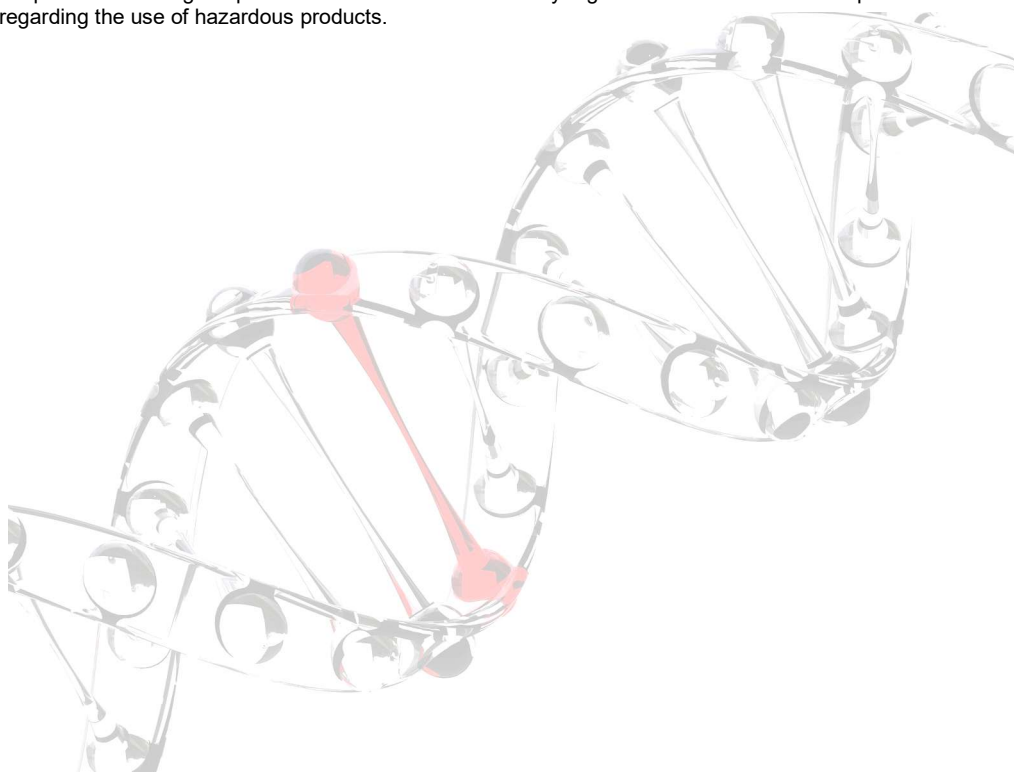
E1 ENVIRONMENTAL HAZARDS

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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