



## Safety Data Sheet

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### Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Cobalt 2-ethylhexanoate

SDS No. : 1752E-3

Relevant identified uses of the substance or mixture and uses advised against

Research and Development

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

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### Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

PHYSICAL AND CHEMICAL HAZARDS

Flammable liquids: Category 3

HEALTH HAZARDS

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2

Respiratory sensitization: Category 1

Skin sensitization: Category 1

Carcinogenicity: Category 1B

Reproductive toxicity: Category 1B

Specific target organ toxicity – single exposure: Category 2 (liver, central nervous system, respiratory system, kidneys)

Specific target organ toxicity – repeated exposure: Category 2 (nervous system, central nervous system, respiratory system)

Aspiration hazard: Category 1

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, short-term (acute): Category 1

Hazardous to the aquatic environment, long-term (chronic): Category 2

(Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Danger

HAZARD STATEMENT

H226 Flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled



H317 May cause an allergic skin reaction

H350 May cause cancer

H360 May damage fertility or the unborn child

H371 May cause damage to organs (liver, central nervous system, respiratory system, kidneys)

H373 May cause damage to organs through prolonged or repeated exposure (nervous system, central nervous system, respiratory system)

H304 May be fatal if swallowed and enters airways

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

#### PRECAUTIONARY STATEMENT

##### Prevention

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P284 In case of inadequate ventilation wear respiratory protection.

P264 Wash contaminated parts thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P270 Do not eat, drink or smoke when using this product.

##### Response

P370 + P378 In case of fire: Use appropriate media to extinguish.

P391 Collect spillage.

P314 Get medical advice/attention if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P331 IF SWALLOWED: Do NOT induce vomiting.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

##### Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

##### Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Specific adverse human health effects



See "11. Toxicological Information".

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**Section 3. Composition/information on ingredients**

Mixture/Substance selection:

Mixture

Ingredient name	Content (%)	CAS No.	ENCS	Chemical formula
Cobalt 2-ethylhexanoate	47	136-52-7	2-615	C <sub>16</sub> H <sub>30</sub> CoO <sub>4</sub>
Hydrodesulfurized heavy naphtha	50-53	64742-82-1	9-1702	-

Note : The figures shown above are not the specifications of the product.

Supplementary information concerning ingredients

Components contained in hydrodesulfurized heavy naphtha

o-,m-,p-Xylene 0.20-3.6% (CAS No.1330-20-7)

Ethylbenzene 0.10-0.60% (CAS No.100-41-4)

1,2,4-Trimethylbenzene 0.40-6.5% (CAS No.95-63-6)

1,3,5-Trimethylbenzene 0.10-2.2% (CAS No.108-67-8)

Impurities

2-Ethylhexanoic acid <3.0% (CAS No.149-57-5)

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**Section 4. First-aid measures**

Descriptions of first-aid measures

General measures

Get medical advice/attention if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN

Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN 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.

IF SWALLOWED

Rinse mouth.

Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor/physician.

Call a POISON CENTER/doctor/physician if you feel unwell.

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**Section 5. Fire-fighting measures**

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.



In case of fire, use spraying loaded liquid, foam (water-soluble liquid: alcohol-resistant foam), inactive gases, dry powder, dry sand to extinguish.

\*Fire Service Act Group 4 Hazardous Materials

Unsuitable extinguishing media

Indoor Fire Plug System or Outdoor Fire Plug System

Sprinkler System

Dry Chemical Extinguishing System—Others (except for phosphates etc., Hydrogen Carbonates etc.)

Fire Extinguisher Discharging Jet Water/Spraying Water

Fire Extinguisher Discharging Jet Loaded Liquid

Fire Extinguisher Discharging Dry Extinguishing agents—Others (except for phosphates etc., Hydrogen Carbonates etc.)

Water Bucket or Water Tank

\*Cabinet Order Concerning the Control of Hazardous Materials (Attached Table 5) Group 4 Hazardous Materials

Specific hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

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## Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.

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## Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)



Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Do not handle until all safety precautions have been read and understood.

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

Wash hands et al thoroughly after handling.

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity".

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash it before reuse.

#### Storage

Conditions for safe storage

Keep container tightly closed.

Store locked up. (P405)

Store in a cool, dry place. Do not store in direct sunlight.

Storage in accordance with local/national regulation.

Container and packaging materials for safe handling

Use closed unbreakable containers.

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### Section 8. Exposure controls/personal protection

Control parameters

Control value and Concentration standard value

(2-Ethylhexanoic acid)

Concentration standard value TWA: 5mg/m<sup>3</sup>

(o-,m-,p-Xylene)

Japan control value 50ppm

(Ethylbenzene)

Japan control value 20ppm

Adopted value

(Cobalt 2-ethylhexanoate)

JSOH(1992) 0.05mg-Co/m<sup>3</sup>

(o-,m-,p-Xylene)

JSOH(2001) 50ppm; 217mg/m<sup>3</sup>

(Ethylbenzene)

JSOH(2020) 20ppm; 87mg/m<sup>3</sup> (skin)

(1,2,4-Trimethylbenzene)



JSOH(1984) 25ppm; 120mg/m<sup>3</sup>

(1,3,5-Trimethylbenzene)

JSOH(1984) 25ppm; 120mg/m<sup>3</sup>

(2-Ethylhexanoic acid)

ACGIH(2007) TWA: 5mg/m<sup>3</sup>(IFV) (Teratogenic eff)

(o-,m-,p-Xylene)

ACGIH(2021) TWA: 20ppm (Eye & URT irr; hematologic eff; ototoxicity; CNS impair)

(Ethylbenzene)

ACGIH(2021) TWA: 20ppm (URT & eye irr; ototoxicity; kidney eff; CNS impair)

(1,2,4-Trimethylbenzene)

ACGIH(2021) TWA: 10ppm (CNS impair; hematologic eff)

(1,3,5-Trimethylbenzene)

ACGIH(2021) TWA: 10ppm (CNS impair; hematologic eff)

[ACGIH] Notation

(o-,m-,p-Xylene)

OTO

(Ethylbenzene)

OTO

#### Exposure controls

##### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

##### Individual protection measures

Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

##### Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

##### Hand protection

Wear impervious protective glove.

##### Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

##### Skin and body protection

Wear protective clothing.

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## Section 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state: Liquid

Color: Blue-purple

Odor: Characteristic odor

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point: 43.2°C

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.



pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Insoluble

Solubility in solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 0.94

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

Other information

Other information is not available.

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## Section 10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

(o-,m-,p-Xylene)

As a result of flow, agitation, etc., electrostatic charges can be generated.

Reacts with strong acids and strong oxidants. (ICSC 0084,0085,0086)

(Ethylbenzene)

The vapour mixes well with air, explosive mixtures are easily formed.

Reacts with strong oxidants. Attacks plastics and rubber. (ICSC 0268)

(1,2,4-Trimethylbenzene)

Decomposes on burning. This produces toxic and irritating fumes. Reacts violently with strong oxidants. This generates fire and explosion hazard. (ICSC 1433)

(1,3,5-Trimethylbenzene)

Decomposes on burning. This produces toxic and irritating fumes. Reacts violently with strong oxidants. This generates fire and explosion hazard. (ICSC 1155)

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Strong acids, Strong oxidizing agents

Hazardous decomposition products

Carbon oxides

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## Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Data for components of the product]

[NITE-CHIRP]

(Cobalt 2-ethylhexanoate)

rat LD50: > 2000 mg/kg (OECD TG 425, GLP) (source: NITE)

(2-Ethylhexanoic acid)



rat LD50: 2043 mg/kg (source: NITE)  
(o-,m-,p-Xylene)  
rat LD50: 3500 – 8800 mg/kg (source: NITE)  
(Ethylbenzene)  
rat LD50: 3500 – 4700 mg/kg (source: NITE)  
(1,2,4-Trimethylbenzene)  
female rat LD50: 3280 mg/kg (source: NITE)  
(1,3,5-Trimethylbenzene)  
rat LD50: 4300 – 8642 mg/kg (source: NITE)

**Acute toxicity (Dermal)**

[Data for components of the product]

[NITE-CHRIP]

(2-Ethylhexanoic acid)

rabbit LD50: 1140 mg/kg (source: NITE)

(o-,m-,p-Xylene)

rabbit LD50: 1700 mg/kg (source: NITE)

(Ethylbenzene)

rabbit LD50: 15400 mg/kg (source: NITE)

**Acute toxicity (Inhalation)**

[Data for components of the product]

[NITE-CHRIP]

(o-,m-,p-Xylene)

vapor: rat LC50: 6350 – 6700 ppm (4-hour) (source: NITE)

(Ethylbenzene)

vapor: rat LC50: 4000 ppm (4-hour) (source: NITE)

mist: rat LC50: 55 mg/L (2-hour) (converted 4-hour equivalent value: 27.5 mg/L) (source: NITE)

(1,2,4-Trimethylbenzene)

mist: rat LC50: 18000 mg/m<sup>3</sup> (4-hour) (source: NITE)

(1,3,5-Trimethylbenzene)

mist: rat LC50: 4800 ppm (4-hour) (source: NITE)

**Irritant properties****Skin corrosion/irritation**

[Product]

Category 2, Causes skin irritation

[Data for components of the product]

[NITE-CHRIP]

(2-Ethylhexanoic acid)

Category 1 (source: NITE)

(o-,m-,p-Xylene)

Category 2 (source: NITE)

(1,2,4-Trimethylbenzene)

Category 2 (source: NITE)

(1,3,5-Trimethylbenzene)

Category 2 (source: NITE)

**Serious eye damage/irritation**

[Product]

Category 2, Causes serious eye irritation

[Data for components of the product]

[NITE-CHRIP]



(Cobalt 2-ethylhexanoate)  
Category 2A (source: NITE)  
(2-Ethylhexanoic acid)  
Category 2 (source: NITE)  
(o-,m-,p-Xylene)  
Category 2 (source: NITE)  
(Ethylbenzene)  
Category 2B (source: NITE)  
(1,2,4-Trimethylbenzene)  
Category 2 (source: NITE)  
(1,3,5-Trimethylbenzene)  
Category 2B (source: NITE)

**Sensitization****Respiratory sensitization****[Product]**

Category 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled

**[Data for components of the product]****[NITE-CHRIP]**

(Cobalt 2-ethylhexanoate)

Category 1A (source: NITE)

**Skin sensitization****[Product]**

Category 1, May cause an allergic skin reaction

**[Data for components of the product]****[NITE-CHRIP]**

(Cobalt 2-ethylhexanoate)

Category 1A (source: NITE)

Mutagenic effects data is not available.

**Carcinogenicity****[Product]**

Category 1B, May cause cancer

**[Data for components of the product]****[NITE-CHRIP]**

(Cobalt 2-ethylhexanoate)

Category 1B (source: NITE)

(Ethylbenzene)

Category 2 (source: NITE)

**[IARC]**

(Cobalt 2-ethylhexanoate)

Group 2B : Possibly carcinogenic to humans

(o-,m-,p-Xylene)

Group 3 : Not classifiable as to its carcinogenicity to humans

(Ethylbenzene)

Group 2B : Possibly carcinogenic to humans

**[ACGIH]**

(o-,m-,p-Xylene)

A4(2021) : Not Classifiable as a Human Carcinogen

(Ethylbenzene)

A3(2021) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(1,2,4-Trimethylbenzene)



A4(2021) : Not Classifiable as a Human Carcinogen

[EU]

(Hydrodesulfurized heavy naphtha)

Category 1B; Substances presumed to have carcinogenic potential for humans

Reproductive toxicity

[Product]

Category 1B, May damage fertility or the unborn child

[Data for components of the product]

[NITE-CHRIP]

(Cobalt 2-ethylhexanoate)

Category 1B (source: NITE)

(2-Ethylhexanoic acid)

Category 1B (source: NITE)

(o-,m-,p-Xylene)

Category 1B (source: NITE)

(Ethylbenzene)

Category 1B (source: NITE)

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Category 2, May cause damage to organs

[Data for components of the product]

[NITE-CHRIP]

(2-Ethylhexanoic acid)

Category 2 (respiratory system) (source: NITE)

(o-,m-,p-Xylene)

Category 1 (liver, central nervous system, respiratory system, kidneys), Category 3

(Narcotic effects) (source: NITE)

(Ethylbenzene)

Category 3 (Respiratory tract irritation), Category 3 (Narcotic effects) (source: NITE)

(1,2,4-Trimethylbenzene)

Category 3 (Respiratory tract irritation), Category 3 (Narcotic effects) (source: NITE)

(1,3,5-Trimethylbenzene)

Category 3 (Respiratory tract irritation), Category 3 (Narcotic effects) (source: NITE)

STOT-repeated exposure

[Product]

Category 2, May cause damage to organs through prolonged or repeated exposure

[Data for components of the product]

[NITE-CHRIP]

(o-,m-,p-Xylene)

Category 1 (nervous system, respiratory system) (source: NITE)

(1,2,4-Trimethylbenzene)

Category 1 (central nervous system, respiratory system) (source: NITE)

(1,3,5-Trimethylbenzene)

Category 1 (central nervous system, respiratory system) (source: NITE)

Aspiration hazard

[Product]

Category 1, May be fatal if swallowed and enters airways

[Data for components of the product]

[NITE-CHRIP]



(o-,m-,p-Xylene)  
Category 1 (source: NITE)  
(Ethylbenzene)  
Category 1 (source: NITE)  
(1,2,4-Trimethylbenzene)  
Category 1 (source: NITE)  
(1,3,5-Trimethylbenzene)  
Category 1 (source: NITE)

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## Section 12. Ecological Information

### Toxicity

#### Aquatic toxicity

##### [Product]

Category 1, Very toxic to aquatic life  
Category 2, Toxic to aquatic life with long lasting effects

##### [Data for components of the product]

Hazardous to the aquatic environment, short-term (acute)

##### [NITE-CHIRP]

(Cobalt 2-ethylhexanoate)

Algae (*Raphidocelis subcapitata*) 72-hour ErC50: 0.6542 mg/L (OECD TG 201, GLP) (source: NITE)

(2-Ethylhexanoic acid)

Crustacea (*Daphnia magna*) 48-hour EC50: 85.4 mg/L (source: NITE)

(o-,m-,p-Xylene)

Fish (*Oncorhynchus mykiss*) 96-hour LC50: 3.3 mg/L (source: NITE)

Crustacea (*Palaemonetes pugio*) 96-hour LC50: 7.4 mg/L (source: NITE)

(Ethylbenzene)

Crustacea (*Crangon franciscorum*) 96-hour LC50: 0.42 mg/L (source: NITE)

Fish (*Morone saxatilis*) 96-hour LC50: 3.7 mg/L (source: NITE)

(1,2,4-Trimethylbenzene)

Fish (*Pimephales promelas*) 96-hour LC50: 7.72 mg/L (source: NITE)

(1,3,5-Trimethylbenzene)

Crustacea (*Daphnia magna*) 48-hour EC50: 6 mg/L (source: NITE)

Fish (*Carassius auratus*) 96-hour LC50: 12.5 mg/L (source: NITE)

Hazardous to the aquatic environment, long-term (chronic)

##### [NITE-CHIRP]

(Cobalt 2-ethylhexanoate)

Algae (*Raphidocelis subcapitata*) 72-hour NOErC: 0.1506 mg/L (OECD TG 201, GLP) (source: NITE)

(o-,m-,p-Xylene)

Fish (*Oncorhynchus mykiss*) NOEC:  $\geq 1.3$  mg/L (source: NITE)

(Ethylbenzene)

Crustacea (*Ceriodaphnia dubia*) 7-day NOEC: 0.956 mg/L (source: NITE)

(1,3,5-Trimethylbenzene)

Crustacea (*Daphnia magna*) 21-day NOEC: 0.4 mg/L (source: NITE)

#### Water solubility

(Cobalt 2-ethylhexanoate)

not poorly water-soluble (40.3 g/L (OECD TG 105)) (source: NITE)

(2-Ethylhexanoic acid)



0.14 g/100 mL (source: ICSC, 2005)  
(Ethylbenzene)  
0.015 g/100 mL (20°C) (source: ICSC, 2007)  
(1,2,4-Trimethylbenzene)  
very poor (source: ICSC, 2002)  
(1,3,5-Trimethylbenzene)  
very poor (source: ICSC, 2002)

**Persistence and degradability****[Data for components of the product]**

(Cobalt 2-ethylhexanoate)  
Rapidly degradable (A 10-day degradation rate: 60% (by CO<sub>2</sub> evolution)) (OECD TG 301B, GLP)  
(source: NITE)  
(o-,m-,p-Xylene)  
Not rapidly degradable (Degradation rate: 39% (by BOD)) (source: NITE)  
(Ethylbenzene)  
Not rapidly degradable (Degradation rate: 0% (by BOD)) (source: NITE)  
(1,2,4-Trimethylbenzene)  
Not rapidly degradable (Degradation rate: 8.7% (by BOD)) (source: NITE)  
(1,3,5-Trimethylbenzene)  
Not rapidly degradable (Degradation rate: 0% (by BOD)) (source: NITE)

**Bioaccumulative potential****[Data for components of the product]**

(Cobalt 2-ethylhexanoate)  
log K<sub>ow</sub>: 4.68 (estimated value) (source: NITE)  
(2-Ethylhexanoic acid)  
log P<sub>ow</sub>: 2.64 (source: NITE)  
(o-,m-,p-Xylene)  
log P<sub>ow</sub>: 3.16 (source: NITE)  
(Ethylbenzene)  
log P<sub>ow</sub>: 3.1 (source: ICSC, 2007)  
(1,2,4-Trimethylbenzene)  
log P<sub>ow</sub>: 3.8 (source: ICSC, 2002)  
(1,3,5-Trimethylbenzene)  
log P<sub>ow</sub>: 3.42 (source: ICSC, 2002)

**Mobility in soil**

Mobility in soil data is not available.

**Other adverse effects**

Ozone depleting chemical data is not available.

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**Section 13. Disposal considerations**

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

**Waste treatment methods**

Avoid release to the environment.  
Dispose of contents/container as industrial waste. Accordance with local/national regulation.



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**Section 14. Transport Information**

UN Number or ID Number : 1993

UN Proper Shipping Name :

FLAMMABLE LIQUID, N.O.S.

Class or division (Transport hazard class) : 3

Packing group : III

ERG GUIDE No.: 128

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : 1993

UN Proper Shipping Name :

FLAMMABLE LIQUID, N.O.S.

Class or division (Transport hazard class) : 3

Packing group : III

IATA (Dangerous Goods Regulations)

UN Number or ID Number : 1993

UN Proper Shipping Name :

FLAMMABLE LIQUID, N.O.S.

Class or division (Transport hazard class) : 3

Hazard labels : Flamm.liquid

Packing group : III

Environmental hazards

Marine pollutants (yes/no) : yes

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**Section 15. Regulatory Information**

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

1,2,4-Trimethylbenzene; Ethylbenzene; 1,3,5-Trimethylbenzene; Cobalt 2-ethylhexanoate;  
2-Ethylhexanoic acid; o-,m-,p-Xylene; Hydrodesulfurized heavy naphtha

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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**Section 16. Other information**

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2022 Edition (Incorporating Amendment 41-22)

IATA Dangerous Goods Regulations (65th Edition) 2024

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2024 TLVs and BEIs. (ACGIH)

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2023 Recommendation on TLVs (JSOH)

Supplier's data/information

General Disclaimer

© KISHIDA CHEMICAL CO., LTD.



Unauthorized translation or modification is prohibited.

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Data published in Japan (National Institute of Technology and Evaluation (NITE) Chemical Risk Information Platform (NITE-CHRIP), up to FY2023).