

**SAFETY DATA SHEET****AKCOBALT %8**

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** AKCOBALT %8  
**Chemical name** Cobalt (II) 2-Ethylhexanoate

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Industrial use.  
**Uses advised against** No specific uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer** AKPA KİMYA AMBALAJ SANAYİ VE TİCARET ANONİM ŞİRKETİ  
Yenibosna Merkez Mah. Ladin Sok. No:36/70 Kat:12 34197 Townofis  
Bahçelievler, İstanbul, TÜRKİYE  
Web: www.akpakimya.com  
TEL: +90 212 580 55 59  
FAX: +90 212 580 55 21  
E-mail: info@akpakimya.com  
**Contact person** Export Department - export@akpakimya.com

**1.4. Emergency telephone number**

**Emergency telephone** CHEMTREC: TOLL Free 1-800-424-9300 / Local: +1-703-527-3887  
**For product information** AKPA KİMYA: +90 549 558 40 40

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (EC 1272/2008)**

**Physical hazards** Flam Liq. 2 - H225  
**Health hazards** Skin Irrit. 2 - H315; Skin sens.1A - H317; Eye Irrit 2 - H319; Asp. Tox. 1 - H304; Repr 2. - H361; STOT SE 3 - H336; STOT RE 1 - H372  
**Environmental hazards** Aquatic Acute 1 H400; Aquatic Chronic 3 H412

**2.2. Label elements****Pictogram****Signal Word****Hazard statements****Danger**

**H225** Highly flammable liquid and vapour.  
**H304** May be fatal if swallowed and enters airways.

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- H315** Causes skin irritation.  
**H317** May cause an allergic skin reaction.  
**H319** Causes serious eye irritation.  
**H336** May cause drowsiness or dizziness.  
**H361** Suspected of damaging fertility or the unborn child.  
**H372** May cause damage to organs.  
**H400** Very toxic to aquatic life.  
**H412** Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P233** Keep container tightly closed.  
**P240** Ground/ bond container and receiving equipment.  
**P241** Use explosion-proof electrical/ ventilating/ lighting/ .../ equipment.  
**P242** Use only non-sparking tools.  
**P261** Keep only in original container.  
**P270** Do not eat, drink or smoke when using this product.  
**P273** Avoid release to the environment.  
**P280** Wear protective gloves/protective clothing/ eye protection/ face protection.  
**P301+P310 IF SWALLOWED:** Immediately call a POISON CENTER/ doctor/ physician.  
**P302+P352 IF ON SKIN:** Wash with plenty of water.  
**P304+P340 IF INHALED:** Remove person to fresh air and keep comfortable for breathing.  
**P363** Avoid release to the environment.  
**P391** Collect spillage.  
**P403+P235** Store in a well-ventilated place. Keep cool.  
**P405** Store locked up.  
**P501** Dispose of contents/ container in accordance with national regulations.

**Commission Regulation (EU) No 2015/830 of 28 May 2015.****Contains**

cobalt bis (2-ethylhexanoate), toluene, Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**2.3. Other hazards**

This substance is not classified as PBT or vPvB according to current EU criteria.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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| Cobalt bis (2-ethylhexanoate)        |          | %45-50    |           |
|--------------------------------------|----------|-----------|-----------|
| REACH Reg. No: 01-2119524678-29-0017 |          |           |           |
| CAS Number                           | 136-52-7 | EC Number | 205-250-6 |
| <b>Classification</b>                |          |           |           |
| Skin Sens. 1A                        | H317     |           |           |
| Eye Irrit. 2                         | H319     |           |           |
| Repr. 2                              | H361     |           |           |
| Aquatic Acute 1                      | H400     |           |           |
| Aquatic Chronic 3                    | H412     |           |           |

| Toluene                              |          | %20-40    |           |
|--------------------------------------|----------|-----------|-----------|
| REACH Reg. No: 01-2119471310-51-0010 |          |           |           |
| CAS Number                           | 108-88-3 | EC Number | 203-625-9 |
| <b>Classification</b>                |          |           |           |
| Flam. Liq. 2                         | H225     |           |           |
| Skin Irrit 2                         | H315     |           |           |
| Asp. Tox. 1                          | H304     |           |           |
| STOT SE 3                            | H336     |           |           |
| STOT RE 2                            | H373     |           |           |
| Repr. 2                              | H361     |           |           |

| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |            | %10-20    |           |
|-------------------------------------------------------------------------|------------|-----------|-----------|
| REACH Reg. No: 01-2119458049-33-0007                                    |            |           |           |
| CAS Number                                                              | 64742-82-1 | EC Number | 919-446-0 |
| <b>Classification</b>                                                   |            |           |           |
| Flam. Liq. 3                                                            | H226       |           |           |
| Asp. Tox. 1                                                             | H304       |           |           |
| STOT SE 3                                                               | H336       |           |           |
| STOT RE 1                                                               | H372       |           |           |
| Aquatic Chronic 2                                                       | H411       |           |           |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

#### Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place

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unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.

**Ingestion**

Rinse mouth thoroughly with water. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.

**Skin contact**

It is important to remove the substance from the skin immediately. Take off immediately all contaminated clothing. Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.

**Protection of first aiders**

First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

A single exposure may cause the following adverse effects: Difficulty in breathing. Unconsciousness. Vapors may irritate the respiratory system. Frequent inhalation of vapors over a long period of time increases the risk of developing lung diseases.

**Ingestion**

May cause sensitization or allergic reactions in sensitive individuals. May cause discomfort if swallowed. May cause stomach pain or vomiting.

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|                                                                                        |                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                                                                    | May cause skin sensitisation or allergic reactions in sensitive individuals. Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur. |
| <b>Eye contact</b>                                                                     | Causes serious eye irritation.                                                                                                                                                                                  |
| <b>4.3. Indication of any immediate medical attention and special treatment needed</b> |                                                                                                                                                                                                                 |
| <b>Notes for the doctor</b>                                                            | Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.                                                                                                                  |

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                       |                                                                                                                                                  |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire extinguishing media suitable for the surrounding fire. |
| <b>Unsuitable extinguishing Media</b> | Do not use water jet as an extinguisher, as this will spread the fire.                                                                           |

**5.2. Special hazards arising from the substance or mixture**

|                         |                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards</b> | Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard. |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                         |                                                                                                            |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------|

**5.3. Advice for firefighters**

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protective actions during firefighting</b> | Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                      |                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 6: Accidental release measures**

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#### 6.1. Personal precautions, protective equipment and emergency procedures

##### Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

##### Environmental precautions

Avoid or minimise the creation of any environmental contamination.

#### 6.3. Methods and material for containment and cleaning up

##### Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Use only non-sparking tools. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### 6.4. Reference to other sections

##### Reference to the other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

##### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift

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and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Storage precautions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from other materials. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

#### 7.3. Specific end use(s)

##### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

#### 8.1. Control Parameters

##### Occupational exposure limits

| Ingredients                                                             | CAS No.    | Value        | Control Parameters               | Note |
|-------------------------------------------------------------------------|------------|--------------|----------------------------------|------|
| Toluene                                                                 | 108-88-3   | STEL (8hr)   | 50 ppm<br>192 mg/m <sup>3</sup>  | WEL  |
|                                                                         |            | STEL (15min) | 100 ppm<br>384 mg/m <sup>3</sup> |      |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 64742-82-1 | TWA          | 50 ppm<br>290 mg/m <sup>3</sup>  | WEL  |
|                                                                         |            | STEL         | 100 ppm<br>580 mg/m <sup>3</sup> |      |

WEL: Workplace Exposure Limit

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                               | End Use   | Exposure routes | Potential health effects     | Value                 |
|----------------------------------------------|-----------|-----------------|------------------------------|-----------------------|
| Toluen                                       | Workers   | Dermal          | Long-term - systemic effects | 384 mg/kg bw/day      |
|                                              | Workers   | Inhalation      | Acute - systemic effects     | 384 mg/m <sup>3</sup> |
|                                              | Workers   | Inhalation      | Long-term - systemic effects | 192 mg/m <sup>3</sup> |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, | Workers   | Dermal          | Long-term - systemic effects | 44 mg/kg bw/day       |
|                                              | Workers   | Inhalation      | -                            | 330 mg/m <sup>3</sup> |
|                                              | Consumers | Dermal          | Long-term - systemic effects | 26 mg/kg bw/day       |

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|                                       |           |            |                              |                       |
|---------------------------------------|-----------|------------|------------------------------|-----------------------|
| <b>cyclics, aromatics<br/>(2-25%)</b> | Consumers | Inhalation | Long-term - systemic effects | 71 mg/m <sup>3</sup>  |
|                                       | Consumers | Oral       | Long-term - systemic effects | 26 mg/kg<br>bw/day    |
|                                       | Workers   | Inhalation | Long-term - systemic effects | 570 mg/m <sup>3</sup> |

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

#### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.



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**Hygiene measures**

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

**Respiratory protection**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear suitable mask. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14 387 and EN143. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

**Environmental exposure controls**

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

|                 |                                      |
|-----------------|--------------------------------------|
| Appearance      | Liquid.                              |
| Colour          | Violet blue.                         |
| Odour           | Characteristic.                      |
| Melting point   | Not available.                       |
| Flash point     | No data available.                   |
| Bulk density    | Not available.                       |
| Solubility(ies) | Insoluble in water.                  |
| Viscosity       | 3 - 3,5 mPa.s @20°C                  |
| Density         | 0,95 ± 0,01 gr/cm <sup>3</sup> @20°C |

**9.2. Other information**

|                   |             |
|-------------------|-------------|
| Metal content (%) | 7,9 - 8,1 % |
|-------------------|-------------|

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Solid Content (%) 40 ± 2 %

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity Not available.

**10.2. Chemical stability**

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions No potentially hazardous reactions.

**10.4. Conditions to avoid**

Conditions to avoid Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented. Avoid exposure to high temperatures or direct sunlight.

**10.5. Incompatible materials**

Materials to avoid Oxidising agents.

**10.6. Hazardous decomposition products**Hazardous decomposition Products Combustion products may include the following substances:  
Harmful gases or vapours.**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Product Information**

Toxicological information The product is not tested.

Serious eye damage/irritation: Eye irritation.

Skin corrosion/irritation: Causes skin irritation.

**Respiratory or skin sensitisation:**

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation May cause sensitisation by skin contact.

Germ cell mutagenicity: Genotoxicity - In Vitro - In Vivo Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

Reproductive Toxicity - Fertility Possible risk of impaired fertility

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|                                                            |                                                                                                                                                                                                                                      |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reproductive Toxicity – Development</b>                 | Possible risk of harm to the unborn child.                                                                                                                                                                                           |
| <b>Specific target organ toxicity - single exposure:</b>   |                                                                                                                                                                                                                                      |
| STOT - Single exposure                                     | May cause drowsiness or dizziness.                                                                                                                                                                                                   |
| <b>Specific target organ toxicity - repeated exposure:</b> |                                                                                                                                                                                                                                      |
| STOT - Repeated exposure                                   | May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                                   |
| <b>Aspiration Hazard</b>                                   | May be fatal if swallowed and enters airways.                                                                                                                                                                                        |
| <b>Inhalation</b>                                          | A single exposure may cause the following adverse effects: Difficulty in breathing. Dizziness or unconsciousness.                                                                                                                    |
| <b>Ingestion</b>                                           | May cause sensitisation or allergic reactions in sensitive individuals. May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting. |
| <b>Skin contact</b>                                        | May cause skin sensitisation or allergic reactions in sensitive individuals. Symptoms following overexposure may include the following: irritation. Redness. Blistering may occur.                                                   |
| <b>Eye contact</b>                                         | Causes serious eye irritation. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.                                                                                               |
| <b>Route of entry</b>                                      | Ingestion Inhalation Skin and/or eye contact                                                                                                                                                                                         |
| <b>Target organs</b>                                       | Respiratory system, lungs                                                                                                                                                                                                            |
| <b>Medical considerations</b>                              | Skin disorders and allergies.                                                                                                                                                                                                        |

**Toxicology Data For The Ingredients:****cobalt bis (2-ethylhexanoate)**

Acute oral toxicity LD50: 3,129 mg/kg Species: Rat

**Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

|                           |                        |                   |
|---------------------------|------------------------|-------------------|
| Acute oral toxicity       | LD50: >15,000 mg/kg    | Species: Rat      |
| Acute dermal toxicity     | LD50: >3,400 mg/kg     | Species: Rabbit   |
| Acute inhalation toxicity | LC50 (Rat): >13.1 mg/l | Exposure time: 4h |

**Toluene**

|                           |                       |                   |
|---------------------------|-----------------------|-------------------|
| Acute oral toxicity       | LD50: 5000 mg/kg      | Species: Rat      |
| Acute dermal toxicity     | LD50: 12124 mg/kg     | Species: Rabbit   |
| Acute inhalation toxicity | LC50 (Rat): 5320 mg/l | Exposure time: 4h |

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**SECTION 12: Ecological Information****12.1. Toxicity****Ecological information on ingredients.****Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

|                                                                               |                                             |
|-------------------------------------------------------------------------------|---------------------------------------------|
| <b>Toxicity to fish</b>                                                       | EC50, 96h (Oncorhynchus mykiss): 10-30 mg/l |
| <b>Toxicity to algae</b>                                                      | EC50, 72h: 4.6 - 10 mg/l                    |
| <b>Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)</b> | EC50, 48h: 10 - 20 mg/l                     |

**Toluene**

|                                                                               |                                                         |
|-------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Toxicity to fish</b>                                                       | EC50, 96h (skeletonerna costatum): >443 ppm             |
| <b>Toxicity to algae</b>                                                      | EC50, 72h (Pseudok rchnerreiJa subcapitģia): 12500 µg/l |
| <b>Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)</b> | EC50, 48h (Gammarus pulex): 11600 µg/l                  |

**12.2. Persistence and degradability****Persistence and degradability** The product is readily biodegradable.**12.3. Bio accumulative potential****Bio accumulative potential** No data available on bioaccumulation.**12.4. Mobility in soil****Mobility** The product is insoluble in water and may spread in the aquatic environment.**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.**12.6. Other adverse effects****Other adverse effects** May be hazardous to aquatic life.**SECTION 13: Disposal considerations****13.1. Waste treatment methods****General information**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When

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handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

#### Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Containers should be thoroughly emptied before disposal because of the risk of a fire. Do not cut or weld used containers unless they have been thoroughly cleaned internally.

## SECTION 14: Transport information

#### General information

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

#### 14.1. UN number

|                  |      |
|------------------|------|
| UN No. (ADR/RID) | 1993 |
| UN No. (IMDG)    | 1993 |
| UN No. (ICAO)    | 1993 |
| UN No. (ADN)     | 1993 |

#### 14.2. UN proper shipping name

|                               |                                    |
|-------------------------------|------------------------------------|
| Proper Shipping name(ADR/RID) | FLAMMABLE LIQUID, N.O.S. (TOLUENE) |
| Proper Shipping name (IMDG)   | FLAMMABLE LIQUID, N.O.S. (TOLUENE) |
| Proper Shipping name (ICAO)   | FLAMMABLE LIQUID, N.O.S. (TOLUENE) |
| Proper Shipping name (ADN)    | FLAMMABLE LIQUID, N.O.S. (TOLUENE) |

#### 14.3. Transport hazard class(es)

|                     |   |
|---------------------|---|
| ADR/RID class       | 3 |
| ADR/RID label       | 3 |
| IMDG class          | 3 |
| ICAO class/division | 3 |
| ADN class           | 3 |

#### Transport labels

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#### 14.4. Packing group

|                       |    |
|-----------------------|----|
| ADR/RID packing group | II |
| IMDG packing group    | II |
| ADN packing group     | II |
| ICAO packing group    | II |

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

|                                        |          |
|----------------------------------------|----------|
| EmS                                    | F-E, S-E |
| ADR Transport Category                 | 2        |
| Emergency Action Code                  | 3YE      |
| Hazard Identification Number (ADR/RID) | 33       |
| Tunnel restriction code                | (D/E)    |

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL Not Applicable.

## SECTION 15: Regulatory information

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

##### National regulations

Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

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**EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****Key literature references and sources for data**

This SDS is prepared based on the information received from the product owner.

**Classification procedures according to Regulation (EC) 1272/2008**

Skin Irrit. 2 H315; Skin sens.1A H317; Eye Irrit 2 H319; Asp. Tox. 1 H304; Repr 2. H361; STOT SE 3 H336; STOT RE 2 H373: Calculation method. Aquatic Acute 1 H400; Aquatic Chronic 3 H412: Calculation method. Flam. Liq. 2 H225: Expert Judgement

**Training advice**

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

**Revision comments**

Revised Section 3.

**Issued By**

Simge ARIK - lab@akpakimya.com +90 282 361 80 99

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2.0

**Hazard statements in full**

|             |                                                      |
|-------------|------------------------------------------------------|
| <b>H225</b> | Highly flammable liquid and vapour.                  |
| <b>H226</b> | Flammable liquid and vapour.                         |
| <b>H304</b> | May be fatal if swallowed and enters airways.        |
| <b>H315</b> | Causes skin irritation.                              |
| <b>H317</b> | May cause an allergic skin reaction.                 |
| <b>H318</b> | Causes serious eye damage.                           |
| <b>H319</b> | Causes serious eye irritation.                       |
| <b>H336</b> | May cause drowsiness or dizziness.                   |
| <b>H361</b> | Suspected of damaging fertility or the unborn child. |

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|             |                                                                    |
|-------------|--------------------------------------------------------------------|
| <b>H372</b> | Causes damage to organs.                                           |
| <b>H373</b> | May cause damage to organs through prolonged or repeated exposure. |
| <b>H400</b> | Very toxic to aquatic life.                                        |
| <b>H411</b> | Toxic to aquatic life with long-lasting effects.                   |
| <b>H412</b> | Harmful to aquatic life with long-lasting effects.                 |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.