SAFETY DATA SHEET
RED CATALYST DYE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: RED CATALYST DYE

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

Supplier: AKPA KIMYA 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: AKPA Kimya: +90 212 580 55 59

SECTION 2: Hazards identification

According to the notifications provided by companies to ECHA in REACH registrations no hazards have been classified.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>%</th>
<th>CAS Number</th>
<th>EC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Phthalate</td>
<td>&lt;97</td>
<td>131-11-3</td>
<td>205-011-6</td>
</tr>
<tr>
<td>2-Naphthalenol</td>
<td>&lt;2</td>
<td>92257-31-3</td>
<td>296-120-8</td>
</tr>
</tbody>
</table>

Classification:
- Repr. 2: H361 (Oral)
- STOT RE 2: H373 (Liver, spleen) (Oral)
- Aquatic Chronic 4: H413
SAFETY DATA SHEET
RED CATALYST DYE

Xylene  < %1

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>EC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>215-535-7</td>
</tr>
</tbody>
</table>

Classification
- Flam. Liq. 3  H226
- Asp. Tox. 1  H304
- Acute Tox. 4  H312
- Skin Irrit. 2  H315
- Eye Irrit. 2  H319
- Acute Tox. 4  H332
- STOT SE  H335
- Aquatic Chronic 3  H412

Ethylbenzene  < %1

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>EC Number</th>
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</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>202-849-4</td>
</tr>
</tbody>
</table>

Classification
- Flam. Liq. 2  H225
- Acute Tox. 4  H332
- Asp. Tox. 1  H304
- STOT RE 2  H373 (hearing organs)
- Aquatic Chronic 3  H412

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation  Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Ingestion  Seek medical advice. Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.

Skin contact  Wash with soap and water. Get medical attention if symptoms occur

Eye contact  Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Most important symptoms and effects, both acute and delayed
No known chronic or acute health risks.

Indication of any immediate medical attention and special treatment needed
SAFETY DATA SHEET
RED CATALYST DYE

Hazards
None known

Treatment
Treat symptomatically

SECTION 5: Firefighting measures

General fire hazards
None known.

Extinguishing media

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture
None known.

Advice for firefighters
Special fire fighting procedures: None known.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear appropriate personal protective equipment.

6.2. Environmental precautions

Environmental precautions Not regarded as dangerous for the environment

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

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
No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in closed original container at temperatures max.30°C

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
Country specific exposure limits have not been established or are not applicable unless listed below.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>United States</th>
<th>The United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
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<tbody>
<tr>
<td>XYLENE 1330-20-7</td>
<td>S* TWA 50 ppm TWA 221 mg/m³ STEL 100 ppm STEL 442 mg/m³</td>
<td>STEL: 100 ppm STEL: 441 mg/m³ STEL: 50 ppm STEL: 220 mg/m³</td>
<td>TWA: 50 ppm TWA: 221 mg/m³ TWA: 1000 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ STEL: 1500 mg/m³</td>
<td>S* STEL: 100 ppm STEL: 442 mg/m³ STEL: 50 ppm STEL: 221 mg/m³</td>
<td>TWA: 100 ppm TWA: 440 mg/m³ Ceiling / Peak: 200 ppm Ceiling / Peak: 880 mg/m³ Skin</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>S* TWA 100 ppm TWA 442 mg/m³ STEL 200 ppm STEL 884 mg/m³</td>
<td>STEL: 125 ppm STEL: 552 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Skin</td>
<td>TWA: 20 ppm TWA: 88.4 mg/m³ TWA: 1000 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ STEL: 1500 mg/m³</td>
<td>S* STEL: 200 ppm STEL: 884 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ STEL: 1500 mg/m³</td>
<td>TWA: 20 ppm TWA: 88 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m³ Skin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Italy</th>
<th>Portugal</th>
<th>The Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE 1330-20-7</td>
<td>TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin</td>
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<td>TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 440 mg/m³ Skin</td>
<td>TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 440 mg/m³ Skin</td>
<td>TWA: 25 ppm TWA: 109 mg/m³ Skin</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ Skin</td>
<td>STEL: 200 ppm STEL: 884 mg/m³ STEL: 100 ppm STEL: 442 mg/m³</td>
<td>TWA: 50 ppm TWA: 220 mg/m³ STEL: 200 ppm STEL: 880 mg/m³ Skin</td>
<td>TWA: 50 ppm TWA: 220 mg/m³ STEL: 200 ppm STEL: 880 mg/m³ Skin</td>
<td>TWA: 50 ppm TWA: 217 mg/m³ Skin</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
RED CATALYST DYE

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Austria</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE 1330-20-7</td>
<td>Skin STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³</td>
<td>Skin STEL: 200 ppm STEL: 870 mg/m³ TWA: 100 ppm TWA: 435 mg/m³</td>
<td>TWA: 100 mg/m³</td>
<td>TWA: 25 ppm TWA: 108 mg/m³ Skin STEL: 37.5 ppm STEL: 135 mg/m³</td>
<td>TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Skin</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>Skin STEL: 200 ppm STEL: 880 mg/m³ TWA: 100 ppm TWA: 440 mg/m³</td>
<td>Skin STEL: 50 ppm STEL: 220 mg/m³ TWA: 50 ppm TWA: 220 mg/m³</td>
<td>STEL: 400 mg/m³ TWA: 200 mg/m³</td>
<td>TWA: 5 ppm TWA: 20 mg/m³ Skin STEL: 5 ppm STEL: 20 mg/m³</td>
<td>TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ Skin</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection
It is a good industrial hygiene practice to minimize eye contact.

Skin/Hand protection
It is a good industrial hygiene practice to minimize skin contact.

Other skin and body protection
No data available.

Hygiene measures
Observe good industrial hygiene practices.

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
No data available.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
SAFETY DATA SHEET
RED CATALYST DYE

Appearance   Liquid
Colour        Red
Odour         Characteristic
pH            No data available
Boiling Point No data available
Flash point   No data available
Flammability  No data available.
Decomposition Temperature: No data available.
Explosive properties: No data available.
Oxidizing properties: No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity       None known.

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        None known.

10.4. Conditions to avoid
Conditions to avoid        None at ambient temperatures.

10.5. Incompatible materials
Materials to avoid        Chlorinated compounds..

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute Toxicity        Based on available data the classification criteria are not met.
SAFETY DATA SHEET
RED CATALYST DYE

Skin corrosion/irritation: Based on available data the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data the classification criteria are not met.

Respiratory or skin sensitization: Based on available data the classification criteria are not met.

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

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

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

Specific target organ toxicity - single exposure
Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure
Based on available data the classification criteria are not met.

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

Other adverse effects: No data available

SECTION 12: Ecological Information

12.1. Toxicity
Toxicity: No data available

12.2. Persistence and degradability
Persistence and degradability: No data available

12.3. Bio accumulative potential
Bio accumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil
Mobility: No data available

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment: No data available
SAFETY DATA SHEET
RED CATALYST DYE

12.6. Other adverse effects
Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
No data available.

Disposal methods
Dispose of waste and residues in accordance with local authority requirements. Incinerate.

SECTION 14: Transport information

14.1. UN number
Class not regulated

14.2. UN proper shipping name
Class not regulated

14.3. Transport hazard class(es)
Class not regulated

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No

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.

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
SAFETY DATA SHEET
RED CATALYST DYE

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 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.

**EU legislation**

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**
Not classified

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

**Revision comments**
The SDS is generated in accordance with the 1907/2006 REACH and 1272/2008 CLP regulations.

**Issued by**
Simge ARIK
lab@akpakimya.com +90 282 361 80 99

**Issued Date**
05.05.2017

**Revision Date**
23.05.2018

**Revision**
1.0

**Hazard statements in full**
H225 Highly flammable liquid and vapour.
SAFETY DATA SHEET
RED CATALYST DYE

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure cause the hazard
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

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.