SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
GHS: The Globally Harmonized System of Classification and Labeling of Chemicals

AU060R
Revision Number 1

1. Identification

Product identifier
Product Name AU060R
Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

Responsible Party Bostik (Shanghai) Management Co., Ltd
Manufacturer Bostik-Nitta Co., Ltd
Building 1, No.968 Guanghua Road, 2-22,Futamata
Minhang District Yao-City, Osaka, (P.C. 581-0024)
Shanghai, China Japan
Tel: 021-60763101 Tel: +81-72-948-8286
Fax: 021-60763133 Fax: +81-72-948-8273

See section 16 for more information.

E-mail address SDS.AP@Bostik.com

Emergency telephone number
Emergency Telephone 0532-8388 9090 (China only)
Chemtrec (Transport/Environmental): 1-800-424-9300
1-703-527-3887 (Outside U.S.)

Recommended use of the chemical and restrictions on use
Recommended use Adhesive
Restrictions on use No information available

2. Hazard(s) identification

Classifcation of the substance or mixture

<table>
<thead>
<tr>
<th>Hazard Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>Hazardous to the Aquatic Environment - Acute Hazard</td>
</tr>
<tr>
<td>Hazardous to the Aquatic Environment - Chronic Hazard</td>
</tr>
</tbody>
</table>

Label elements

Signal word Warning

Hazard statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements
Prevention
P264 - Wash face, hands and any exposed skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
3. Composition/information on ingredients

Substance
Not applicable.

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl), α-(1-oxo-2-propen-1-yl)-ω-(nonylphenoxy)-</td>
<td>50974-47-5</td>
<td>40 - &lt;60</td>
</tr>
<tr>
<td>Urethane acrylate</td>
<td>-</td>
<td>20 - &lt;30</td>
</tr>
<tr>
<td>Isooctadecyl acrylate</td>
<td>93841-48-6</td>
<td>10 - &lt;20</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
<td>0 - &lt;0.1</td>
</tr>
</tbody>
</table>

*** Any remaining ingredients are not hazardous

4. First-aid measures

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

Inhalation
Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. In case of accidental eye contact avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.

Skin contact
Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. In case of accidental skin contact avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the skin.

Ingestion
Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Most important symptoms/effects, acute and delayed

Symptoms
May cause redness and tearing of the eyes. Burning sensation.

For emergency responders
Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Note to physicians
Treat symptomatically.
5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media  CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media  No information available.

Specific hazards arising from the chemical

Hazardous polymerization may occur. Containers may explode when heated.

Hazardous combustion products  Carbon oxides. Silicon dioxide.

Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions  Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

Other information  Refer to protective measures listed in Sections 7 and 8.

For emergency responders  Use personal protection recommended in Section 8. Remove all sources of ignition. Ventilate the area.

Environmental precautions  Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Pick up and transfer to properly labeled containers.

Prevention of secondary hazards  Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

See Section 8 for information on appropriate personal protective equipment

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Store in a well-ventilated place. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

Keep at temperatures between 41 and 77 °F / 5 and 25 °C.


8. Exposure controls/personal protection
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Occupational exposure limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>China ACGIH TLV</th>
<th>India ACGIH TLV</th>
<th>Indonesia</th>
<th>Malaysia</th>
<th>Thailand</th>
<th>Vietnam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone - 123-31-9</td>
<td>TWA: 1 mg/m³ STEL: 2 mg/m³</td>
<td>dermal sensitizer TWA: 1 mg/m³</td>
<td>-</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³ STEL: 1.5 mg/m³ TWA: 0.5 mg/m³</td>
</tr>
</tbody>
</table>

Note: See section 16 for terms and abbreviations

Biological occupational exposure limits

No data available

Monitoring and observation processes

No applicable information was found.

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection
If splashes are likely to occur, wear safety glasses with side-shields.

Skin and body protection
Wear suitable protective clothing. Long sleeved clothing.

Hand protection
Wear suitable gloves. Impervious gloves.

Respiratory protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations
Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Gel Paste</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Purple</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Slight Resinous</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>pH (as aqueous solution)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>350 °C</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
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Additional information

Oxidizing properties No information available
Solid content (%) No information available
Density No data available

10. Stability and reactivity

Reactivity

Product reacts / cures under exposure of light.

Stability

Stable under recommended storage conditions.

Sensitivity to mechanical impact

None.

Sensitivity to static discharge

None.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials


Hazardous decomposition products

None known based on information supplied.

11. Toxicological information

Product Information

Inhalation

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact

Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact

Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms

Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>390 mg/kg</td>
<td>= 74800 mg/kg (Oryctolagus cuniculus)</td>
<td>-</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

Classification based on data available for ingredients. May cause skin irritation.

Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.
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Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone (123-31-9)</td>
<td>OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test</td>
<td>Mouse</td>
</tr>
</tbody>
</table>

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>China</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>-</td>
<td>Group 3</td>
</tr>
</tbody>
</table>

Legend

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone (123-31-9)</td>
<td>OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies</td>
<td>Rat</td>
</tr>
</tbody>
</table>

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.

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>EC50: =0.335mg/L (72h, Pseudokirchneriella subcapitata) EC50: =13.5mg/L (120h, Desmodesmus subspicatus)</td>
<td>LC50 96 h = 0.044 mg/L (Oncorhynchus mykiss flow-through)</td>
<td>EC50: =0.29mg/L (48h, Daphnia magna)</td>
</tr>
</tbody>
</table>

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>0.59</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td></td>
</tr>
</tbody>
</table>
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Hydroquinone
123-31-9

The substance is not PBT / vPvB
PBT assessment does not apply

Mobility in soil
No information available.

13. Disposal considerations

Waste chemicals
Waste from residues/unused products
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Handle contaminated packages in the same way as the product itself.

14. Transport information

IMDG
Not regulated

IATA
Not regulated

ADR
Not regulated

Special precautions for user
Please refer to the applicable dangerous goods regulations for additional information

15. Regulatory information

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

National regulations

Malaysia
• Chemical classification, Labelling and Safety Data Sheets Regulation, 2013(CLASS)
• Industry Code Of Practice 2014 (ICOP)

Indonesia
• Regulation no. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals, as amended by 23/M-IND/PER/4/2013

Singapore
• SS 586:2014

Vietnam
• Circular 04/2012/TT-BCT dated 13/02/2012

Philippines
• Rules and Procedures for the Safety Data Sheet (SDS), Labeling Requirements and Hazards classification under DENR Administrative Order No. 29, series of 1992 of Republic Act 6969

Chemical Control Order
Not applicable

Priority Chemical List (PCL)
Not applicable

Thailand
• Hazard Classification and Communication System of Hazardous Substance B.E. 2555 (2012)
The Hazardous Substance Act B.E. 2556 (2013)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Weight-%</th>
<th>The Hazardous Substance Act B.E. 2556 (2013)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>0 - &lt;0.1</td>
<td>3</td>
</tr>
<tr>
<td>123-31-9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Europe


SVHC: Substances of Very High Concern for Authorization:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

2015/863/EU - RoHS
This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polychlorinated biphenyls (PCB), Polychlorinated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

16. Other information

Local Contacts

<table>
<thead>
<tr>
<th>Bostik Findley (Malaysia) Sdn. Bhd</th>
<th>Bostik Asia Pacific</th>
<th>Bostik (Thailand) Co.,Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot 112 &amp; 113, Kawasan Perindustrian, senawang, negeri sembilian, Malaysia</td>
<td>1 Science Park Road, #04-01/05 West Wing, The Capricom, Singapore Science Park II, Singapore</td>
<td>1/32, 16A th Floor, Bangnathani Building, Soi Bangna-Trad 34, South Bangna, Bangna, Bangkok, Thailand</td>
</tr>
<tr>
<td>Tel: 606-6789788 Fax: 606-6789766</td>
<td>Tel: +65-6419-9161 Fax: +65-6419-9150</td>
<td>Tel: 66 (0) 2361-6460 Fax: 66 (0) 2361-6469</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bostik Philippines, Inc.</th>
<th>Bostik Indonesia</th>
<th>Bostik Vietnam Company Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tel: 632-900-5656 Fax: 632-900-5622</td>
<td>Tel: 62 21 521 0404 Fax: 62 21 521 0554</td>
<td>Tel: 84 650 3765105 Fax: 84 650 3765109</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bostik India Private Ltd</th>
<th>Jiangsu Bostik Adhesive Co.,Ltd</th>
<th>Bostik Findley (China) Co.,Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>124/1 &amp; 124/2A Kachanayakanahalli Behind Bommasanda Indi.Area Off Hosur Road, Hennagara Post, Anekal Taluk Bangalore - 562106, Karnataka, INDIA</td>
<td>No.15-9, Xinggang Road, Changshu Enconomic Development Zone Jiangsu Province 215536 Tel: 0086-512-52266000 Fax: 0086-512-52266020</td>
<td>No.75, Xin Zhaung 2 Road, Yong He District, GETDD Guangzhou, 511356, China TEL: 020 -32226211 FAX: 020 -32226261</td>
</tr>
<tr>
<td>Tel: 0091-80-27833520</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Abbreviations and acronyms

Legend  Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA    TWA (time-weighted average)
STEL   STEL (Short Term Exposure Limit)
Ceiling Ceiling Limit Value
*      Skin designation
SVHC   Substance(s) of Very High Concern
PBT    Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB   Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE Specific target organ toxicity - Repeated exposure
STOT SE Specific target organ toxicity - Single exposure

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet