

SAFETY DATA SHEET

DULUX ALL-ROUND-GUARD BAMBOO CHARCOAL ANTI-FORMALDEHYDE ECO-SENSE ALLIN1 EMULSION

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Section 1. Identification

Product name : DULUX ALL-ROUND-GUARD BAMBOO CHARCOAL ANTI-FORMALDEHYDE ECO-SENSE ALLIN1 EMULSION
Product use : Waterborne coating for interior use.

Details of the supplier of the safety data sheet

Akzo Nobel Paints (Shanghai) Ltd.
No. 536 RongLe Road (E.),
Song Jiang Industrial Zone,
Shanghai, 201600, P. R. China
Tel: 021-37606666
Fax: 021-57743200

Akzo Nobel Paints (Guangzhou) Ltd.
No. 2 ShiYing Road, Bei Wei Industrial District,
Guangzhou Economic & Technological Development Zone
Guangzhou, 510730, P. R. China
Tel: 020-82150388
Fax: 020-82223275

Akzo Nobel Decorative Coatings (Lang Fang) Co., Ltd.
No. 18 DingXiang Road,
Langfang Economic & Technical Zone,
Hebei Province, 065001, P. R. China
Tel: 0316-2957265
Fax: 0316-5976839

Akzo Nobel Paints (Chengdu) Ltd.
No. 19 YangHeng Si Road, Yang An Industrial Park,
Qionglai, Chengdu, 611500, P.R. China
Tel: 028-65274300
Fax: 028-62558101

e-mail address : SDS.DECOChina@akzonobel.com

Emergency telephone number : (0086) 0532-8388 9090 (24 hours)

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000.2-2013 ~ 30000.29-2013

Emergency overview

Liquid.

Toxic to aquatic life.

See Section 12 for environmental precautions.

Classification of the substance or mixture : SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2

GHS label elements

Signal word : No signal word.

Hazard statements : H401 - Toxic to aquatic life.

Precautionary statements

General : Not applicable.

Prevention : P273 - Avoid release to the environment.

Response : P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.

Physical and chemical hazards : No known significant effects or critical hazards.

Health hazards : No known significant effects or critical hazards.

Environmental hazards : Toxic to aquatic life.

Other hazards which do not result in classification : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name | % by weight | CAS number |
|-----------------|-------------|------------|
| pyrithione zinc | 0 -<1 | 13463-41-7 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8.2 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : 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.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** :

Section 8. Exposure controls/personal protection

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended.

Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm.

When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended.

Recommended gloves: Nitrile, thickness ≥ 0.12 mm.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

| | | |
|-------------------------------|---|--|
| Body protection | : | |
| Other skin protection | : | Appropriate footwear and any additional skin protection measures should be |
| Respiratory protection | : | selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |

Section 9. Physical and chemical properties

General information

Appearance

| | | |
|------------------------|---|----------------|
| Physical state | : | Liquid. |
| Colour | : | Not available. |
| Odour | : | Not available. |
| Odour threshold | : | Not available. |

Important health, safety and environmental information

| | | |
|---|---|--|
| pH | : | 8,5 |
| Melting point | : | Not available. |
| Initial boiling point and boiling range | : | 100°C |
| Flash point | : | Not applicable. |
| Burning time | : | Not applicable. |
| Burning rate | : | Not applicable. |
| Evaporation rate | : | Not available. |
| Flammability (solid, gas) | : | Not available. |
| Lower and upper explosive (flammable) limits | : | Not available. |
| Vapour pressure | : | Not available. |
| Vapour density | : | Not available. |
| Relative density | : | 1,432 * |
| Solubility | : | Easily soluble in the following materials: cold water. |
| Partition coefficient: n-octanol/water | : | Not available. |
| Auto-ignition temperature | : | Not available. |
| Decomposition temperature | : | Not available. |
| SADT | : | Not available. |
| Viscosity | : | Kinematic (room temperature): 13,97 cm ² /s |
| Flow time (ISO 2431) | : | Not available. |

* typical value, figure may vary with colour, etc

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------|------------------------|---------|-------|----------|-------------|
| 2-methyl-2H-isothiazol-3-one | Eyes - Severe irritant | Rabbit | - | - | - |

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|-----------------|------------|-------------------|---------------|
| pyrithione zinc | Category 1 | - | - |

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Section 11. Toxicological information

- Eye contact** : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Long term exposure

- Potential immediate effects** : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

- General** : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| pyrithione zinc | 100 | N/A | N/A | N/A | 0,05 |
| 2-methyl-2H-isothiazol-3-one | 100 | 300 | N/A | N/A | 0,05 |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|-------------------------------------|----------------------------------|----------|
| pyrithione zinc | Acute EC50 0,51 µg/l Marine water | Algae - Thalassiosira pseudonana | 96 hours |
| | Acute EC50 8,25 ppb Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 2,68 ppb Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic EC10 0,36 µg/l Marine water | Algae - Thalassiosira pseudonana | 96 hours |

Section 12. Ecological information

| | | | |
|------------------------------|--|---|----------|
| 2-methyl-2H-isothiazol-3-one | Acute EC50 0,24 mg/l | Daphnia | 48 hours |
| | Acute EC50 0,18 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute IC50 0,063 mg/l | Algae - (Pseudokirchneriella subcapitata) | 72 hours |
| | Acute LC50 0,056 to 0,084 ppm Marine water | Crustaceans - Acartia tonsa | 48 hours |
| | Acute LC50 12,4 mg/l | Fish - (Lepomis Macrochirus) | 96 hours |
| | Acute LC50 0,18 mg/l | Fish | 96 hours |
| | Acute LC50 6 mg/l | Fish - Oncorhynchus Mykiss | 96 hours |
| | Acute LC50 0,07 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

Persistence/degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| pyrithione zinc | 0,9 | 11 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Information pertaining to IATA and ADN is considered not relevant since the material is not packaged in the correct approved packaging required of these methods of transport.

Information pertaining to IATA and ADN is considered not relevant since the material is not packaged in the correct approved packaging required of these methods of transport.

| | UN | IMDG |
|---|---|-----------------|
| 14.1 UN number | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | Not applicable. | Not applicable. |
| 14.3 Transport hazard class(es) Class | Not applicable. | Not applicable. |
| Subsidiary class | - | - |
| 14.4 Packing group | Not applicable. | Not applicable. |
| 14.5 Environmental hazards | | |
| Marine pollutant | No. | No. |
| Marine pollutant substances | | Not available. |
| 14.6 Special precautions for user | Transport within user's premises: 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. | |
| HI/Kemler number | Not available. | |
| Emergency schedules (EmS) | | Not applicable. |
| Transport in bulk according to IMO instruments : Not applicable. | | |
| Additional information | - | - |

Section 15. Regulatory information

China inventory (IECSC) : Listed.

List of Goods banned for Importing

None of the components are listed or the component present is below its threshold.

List of Goods banned for Exporting

None of the components are listed or the component present is below its threshold.

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed or the component present is below its threshold.

Section 15. Regulatory information

Inventory of highly toxic articles

None of the components are listed or the component present is below its threshold.

Catalogue of Hazardous Chemicals of Priority Management

None of the components are listed or the component present is below its threshold.

Catalogue of Occupational Disease Hazard Factors - Dust

None of the components are listed, or the component present is below its threshold.

Catalogue of Occupational Disease Hazard Factors - Chemical Factors

None of the components are listed, or the component present is below its threshold.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Product code : 453569

History

Date of printing : 7-5-2022

Date of issue/Date of revision : 7-5-2022

Date of previous issue : No previous validation

Version : 0.01

Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 SGG = Segregation Group
 UN = United Nations

Procedure used to derive the classification

| Classification | Justification |
|--|--------------------|
| SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 | Calculation method |

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.

Head Office

AkzoNobel Decorative Coatings BV, Christian Neefstraat 2, 1077 WW Amsterdam, The Netherlands