

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

1.1. Product identifier

Product form : Mixture
 Trade name : ALBERDINGK® LUX 560
 Other means of identification : Binding Agent

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

Use of the substance/mixture : No INformation Available

1.3. Details of the supplier of the safety data sheet

ALBERDINGK BOLEY INC
 6008 W. Gate City Boulevard
 Greensboro, NC 27407 - USA
 T +1-866-220-4750 - F 336-454-5007
info@alberdingkusa.com - www.alberdingk.com

1.4. Emergency telephone number

Emergency number : Emergency Contact (24-Hour-Number): Chemtrec 1800-424-9300 or 1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Sens. 1 H317

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning
 Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction
 Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P302+P352 - If on skin: Wash with plenty of water/
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards

Other hazards not contributing to the classification : Not classified as PBT or vPvB.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture: Hazardous Ingredients

| Name | Product identifier | % | Classification (GHS-US) |
|-------------------------------------------|---------------------|------|-------------------------|
| Trimethylolpropane ethoxylate triacrylate | (CAS No) 28961-43-5 | < 10 | Not classified |

ALBERDINGK® LUX 560

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name | Product identifier | % | Classification (GHS-US) |
|------------------------------|--------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| triethylamine | (CAS No) 121-44-8 | < 0.5 | Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 |
| 1,2-benzisothiazol-3(2H)-one | (CAS No) 2634-33-5 | < 0.03 | Acute Tox. 4 (Oral), H302 |

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see ... on this label). Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Reactivity : Not classified as dangerous substance / mixture. Non-hazardous waste.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Good ventilation of the workplace required.

ALBERDINGK® LUX 560

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. |
| Handling temperature | : 5 - 30 °C |
| Hygiene measures | : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|------------------------------------------------------------------------------------------------|
| Technical measures | : No additional information available. |
| Storage conditions | : Keep container tightly closed. Keep container closed when not in use. Protect against frost. |
| Incompatible products | : Strong bases. Strong acids. |
| Incompatible materials | : Sources of ignition. Direct sunlight. |
| Maximum storage period | : 6 months |
| Storage temperature | : 10 - 30 °C |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| triethylamine (121-44-8) | | |
|--------------------------|-------------------------------------|-------------------------|
| USA ACGIH | ACGIH TWA (ppm) | 1 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 2 ppm |
| USA ACGIH | Remark (ACGIH) | Visual impair; Skin; A4 |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 100 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 25 ppm |

8.2. Exposure controls

| | |
|-------------------------------|------------------------------------------|
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : Wear protective gloves. |
| Eye protection | : Chemical goggles or safety glasses. |
| Respiratory protection | : Wear appropriate mask. |
| Other information | : Do not eat, drink or smoke during use. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------------------|---------------------------------------------------------------------------------|
| Physical state | : Liquid |
| Color | : Yellow |
| Odor | : characteristic |
| Odor threshold | : No data available |
| pH | : 7 - 8.5 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : 0 °C |
| Freezing point | : 0 °C |
| Boiling point | : 100 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : 2.3 kPa |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Specific gravity / density | : 1 - 1.1 g/cm ³ |
| Percent Solids | : 38.5 - 40.5 % |
| Solubility | : Water: Solubility in water of component(s) of the mixture : • : 17 g/100ml |

ALBERDINGK® LUX 560

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|----------------------|---------------------|
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 10 - 200 mPa.s |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not classified as dangerous substance / mixture. Non-hazardous waste.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| triethylamine (121-44-8) | |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| LD50 oral rat | > 460 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 730 mg/kg bodyweight; Rat) |
| LD50 dermal rabbit | 416 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 580 mg/kg bodyweight; Rabbit) |
| LC50 inhalation rat (mg/l) | > 4.2 mg/l/4h (Rat) |
| ATE US (oral) | 500.00000000 mg/kg body weight |
| ATE US (dermal) | 416.00000000 mg/kg body weight |
| ATE US (dust, mist) | 1.50000000 mg/l/4h |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|-------------------------------------------------|------------------------------------|
| LD50 oral rat | 1020 mg/kg (Rat; Literature study) |
| ATE US (oral) | 1020.00000000 mg/kg body weight |

| | |
|----------------------------------------------------|----------------------------------------|
| Skin corrosion/irritation | : Not classified pH: 7 - 8.5 |
| Serious eye damage/irritation | : Not classified pH: 7 - 8.5 |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |

ALBERDINGK® LUX 560

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-----------------------------------------------------|---------------------------------------------------------------------|
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : May cause an allergic skin reaction. |

SECTION 12: Ecological information

12.1. Toxicity

| triethylamine (121-44-8) | |
|-------------------------------------------|----------------------------------------------------|
| LC50 fish 1 | 43.7 mg/l (96 h; Pimephales promelas; GLP) |
| EC50 Daphnia 1 | 200 mg/l (48 h; Daphnia magna; Inhibitory) |
| LC50 fish 2 | 330 mg/l (96 h; Poecilia reticulata) |
| Threshold limit other aquatic organisms 1 | < 85 mg/l (Bacteria; Toxicity test) |
| Threshold limit algae 1 | 1 mg/l (96 h; Scenedesmus quadricauda; Inhibitory) |
| Threshold limit algae 2 | > 1 mg/l (Scenedesmus quadricauda) |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|------------------------------------------|-----------------------------------|
| LC50 fish 1 | 10 mg/l (96 h; Alburnus alburnus) |

12.2. Persistence and degradability

| ALBERDINGK® LUX 560 | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| triethylamine (121-44-8) | |
|---------------------------------|----------------------------------------------------------------------------------------------------|
| Persistence and degradability | Readily biodegradable in water. Low potential for adsorption in soil. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | < 0.001 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.020 g O ₂ /g substance |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|------------------------------------------|-------------------------------------------------------------------------------|
| Persistence and degradability | Biodegradable in water. No (test)data on mobility of the substance available. |

12.3. Bioaccumulative potential

| ALBERDINGK® LUX 560 | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| triethylamine (121-44-8) | |
|-------------------------------|------------------------------------------------|
| BCF fish 1 | < 0.5 (42 days; Cyprinus carpio) |
| BCF other aquatic organisms 1 | 7.45 (QSAR) |
| Log Pow | 1.45 (Experimental value; Other) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|------------------------------------------|--------------------------------------------------|
| Log Pow | 1.3 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

| triethylamine (121-44-8) | |
|--------------------------|-------------------|
| Surface tension | 0.021 N/m (20 °C) |

12.5. Other adverse effects

| | |
|------------------------------|------------------------------------------------------|
| Effect on ozone layer | : No additional information available |
| Effect on the global warming | : No known ecological damage caused by this product. |
| Other information | : Avoid release to the environment. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ... |
| Ecology - waste materials | : Avoid release to the environment. |

ALBERDINGK® LUX 560

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

Transport document description :

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

ALBERDINGK® LUX 560

listed on the United States TSCA (Toxic Substances Control Act) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

triethylamine (121-44-8)

Listed on United States SARA Section 313

| | |
|--------------------------------------------------------------|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |
|--------------------------------------------------------------|---------|

15.2. International regulations

CANADA

ALBERDINGK® LUX 560

listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

ALBERDINGK® LUX 560

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

triethylamine (121-44-8)

U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

Other information :
: None.

Full text of H-phrases: see section 16:

| | |
|-------------------------------------|--------------------------------------------------|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |

ALBERDINGK® LUX 560

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|---------------|-----------------------------------------|
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| Skin Sens. 1 | Skin sensitization Category 1 |
| H225 | Highly flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H332 | Harmful if inhaled |

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product