## SAFETY DATA SHEET



SYNTEKO 1357

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : SYNTEKO 1357

**Code** : 1357

Chemical name : Urea-formaldehyde resin

Use of the : Wood Adhesives

substance/preparation

Company/undertaking identification

Manufacturer : CASCO ADHESIVES (ASIA) PTE LTD

14 Sungei Kadut Way

Singapore 728788, Singapore

Phone: +65 6762 2088

Distributor : CASCO ADHESIVES (ASIA) PTE LTD

14 Sungei Kadut Way

Singapore 728788, Singapore

Phone: +65 6762 2088

E-mail address of person responsible for this SDS

: hse.adhesives@akzonobel.com

Emergency telephone number: +65 6762 2088

### 2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Carc. Cat. 3; R40

R43

**Human health hazards**: Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact.

See section 11 for more detailed information on health effects and symptoms.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
formaldehyde	50-00-0	1-3	200-001-8	Carc. Cat. 3; R40 [1] [2] T; R23/24/25 C; R34 R43
See section 16 for the full text of the R-phrases declared above				

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

### 4. FIRST AID MEASURES

First-aid measures

Inhalation : Move exposed person to fresh air. Get medical attention if irritation occurs.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by

medical personnel. Get medical attention.

Skin contact : Wash contaminated skin with soap and water. Remove contaminated clothing and

shoes. Wash clothing before reuse. In the event of any complaints or symptoms,

avoid further exposure. Get medical attention if irritation develops.

**Eye contact**: Check for and remove any contact lenses. Rinse with plenty of running water. Get

medical attention if irritation occurs.

Date of issue/Date of : 2009-11-03.

**SYNTEKO 1357** 

#### FIRST AID MEASURES 4.

See section 11 for more detailed information on health effects and symptoms.

#### 5. FIRE-FIGHTING MEASURES

Extinguishing media

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

Special exposure hazards

No specific fire or explosion hazard.

**Hazardous combustion** products

Decomposition products may include the following materials:

carbon dioxide

Special protective

carbon monoxide

equipment for fire-fighters

: Be sure to use an approved/certified respirator or equivalent.

#### ACCIDENTAL RELEASE MEASURES 6.

**Personal precautions** 

Do not touch or walk through spilt material. Do not breathe dust. Avoid contact with

eyes, skin and clothing. Use suitable protective equipment (section 8).

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains

and sewers.

Large spill : Use a shovel to transfer the material to a convenient waste disposal container.

Dispose of via a licensed waste disposal contractor.

**Small spill** : Vacuum or sweep up material and place in a designated, labelled waste container.

#### 7. HANDLING AND STORAGE

Handling

: Do not get in eyes or on skin or clothing. Do not breathe dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). If during normal use the material presents a respiratory hazard, use only with

adequate ventilation or wear appropriate respirator.

Storage : Keep container tightly closed. Store in a dry, cool and well-ventilated area.

**Packaging materials** 

Recommended : Use original container.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

Ingredient name formaldehyde

**Occupational exposure limits** 

ACGIH TLV (United States, 1/2007). Skin sensitiser. Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. Refers to Appendix A --Carcinogens. 2000 Adoption.

C: 0,37 mg/m<sup>3</sup> C: 0,3 ppm

### **Exposure controls**

**Occupational exposure** controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use only in well-ventilated areas.

**Hygiene measures** 

Ensure that eyewash stations and safety showers are close to the workstation location. 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. Wash contaminated clothing before reusing.

**Respiratory protection** 

If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. Type A2/P2.

**Hand protection** 

Neoprene gloves. PVC gloves. Nitrile gloves.

Eye protection **Skin protection** 

Safety glasses. Protective clothing.

Date of issue/Date of : 2009-11-03. 2/5

**SYNTEKO 1357** 

#### PHYSICAL AND CHEMICAL PROPERTIES 9.

### **General information**

**Appearance** 

**Physical state** : Solid. Colour White. : Faint odour. Odour

Important health, safety and environmental information

pН : 8 to 9 [Conc. (% w/w): 50%] Flash point : Closed cup: >200°C (>392°F)

**Density** : 0,6 g/cm<sup>3</sup>

Solubility Soluble in the following materials: cold water and hot water.

#### STABILITY AND REACTIVITY 10.

**Stability** The product is stable. **Conditions to avoid** No specific data. Materials to avoid No specific data.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

#### 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

Inhalation Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Ingestion None.

Skin contact May cause sensitisation by skin contact.

**Eye contact** Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

**Acute toxicity** 

**Product/ingredient name** Result **Species Dose Exposure** 

formaldehyde LD50 Oral Rat 100 mg/kg

### Potential chronic health effects

**Chronic effects** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity May cause cancer, based on animal data. Limited evidence of a carcinogenic

effect. Risk of cancer depends on duration and level of exposure.

Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion No specific data.

Skin Adverse symptoms may include the following:

> irritation redness

Eyes Adverse symptoms may include the following:

> irritation redness

Target organs : Contains material which may cause damage to the following organs: mucous

membranes, upper respiratory tract, skin, eye, lens or cornea.

Other adverse effects The product contains small amounts of unreacted formaldehyde, which may be

given off by curing. Formaldehyde vapor may be irritating to respiratory tract.

revision

Date of issue/Date of : 2009-11-03. 3/5

### 12. ECOLOGICAL INFORMATION

**Environmental effects** : There is no data available on the preparation itself.

**Aquatic ecotoxicity** 

Product/ingredient nameResultSpeciesExposureformaldehydeAcute EC50 5800 to 7800Daphnia - Daphnia pulex48 hours

ug/L Fresh water

Acute LC50 1,41 ppm Fish - Oncorhynchus 96 hours

Fresh water mykiss

Conclusion/Summary

**Biodegradability** 

: No known significant effects or critical hazards.

**Conclusion/Summary**: No known significant effects or critical hazards.

### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal** : 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.

European waste catalogue

(EWC)

: 08 04 09

08 04 09\* waste adhesives and sealants containing organic solvents or other

dangerous substances

Hazardous waste : Yes.

### 14. TRANSPORT INFORMATION

### **International transport regulations**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG\*: Packing group

### 15. REGULATORY INFORMATION

### **EU regulations**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols



Harmful

**Risk phrases**: R40- Limited evidence of a carcinogenic effect.

R43- May cause sensitisation by skin contact.

**Safety phrases** : S36/37- Wear suitable protective clothing and gloves.

Contains : formaldehyde 200-001-8

Product use : Industrial applications.

Date of issue/Date of : 2009-11-03. 4/5

**S**YNTEKO 1357

### 16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and

3 - Europe

: R40- Limited evidence of a carcinogenic effect.

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

R34- Causes burns.

R43- May cause sensitisation by skin contact.

Full text of classifications referred to in sections 2 and 3 - Europe

: Carc. Cat. 3 - Carcinogen category 3

T - Toxic C - Corrosive

**History** 

Date of issue/Date of

revision

: 2009-11-03.

Date of previous issue : 2009-10-29.

Version : 2.04

Prepared by : Kristofer Modin

✓ Indicates information that has changed from previously issued version.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

## SAFETY DATA SHEET



**HARDENER 2732** 

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

**Product name** : HARDENER 2732

Code • 2732 Use of the : Hardener

substance/preparation

Company/undertaking identification

**Manufacturer** : CASCO ADHESIVES (ASIA) PTE LTD

14 Sungei Kadut Way

Singapore 728788, Singapore Phone: +65 6762 2088

**Distributor** : CASCO ADHESIVES (ASIA) PTE LTD

14 Sungei Kadut Way

Singapore 728788, Singapore

Phone: +65 6762 2088

E-mail address of person

responsible for this SDS

: hse.adhesives@akzonobel.com

Emergency telephone number : +65 6762 2088

#### 2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36

**Human health hazards** : Irritating to eyes.

See section 11 for more detailed information on health effects and symptoms.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification	
alcium sulfate ammonium chloride	7778-18-9 12125-02-9	10-25 10-25	231-900-3 235-186-4	Not classified. [2 Xn; R22 [1 Xi; R36	?] ] [2]
See section 16 for the full text of the R-phrases declared above					

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

#### FIRST AID MEASURES 4.

**First-aid measures** 

**Inhalation** : Move exposed person to fresh air. Get medical attention if irritation occurs.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by

medical personnel. Get medical attention if adverse health effects persist or are

**Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and

shoes. Get medical attention if irritation develops.

**Eye contact** : Check for and remove any contact lenses. Rinse with plenty of running water. Get

medical attention.

See section 11 for more detailed information on health effects and symptoms.

Date of issue/Date of : 2009-11-30. 1/4

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media** 

**Suitable** 

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Special exposure hazards

**Hazardous combustion** products

: No specific fire or explosion hazard.

: Decomposition products may include the following materials:

sulfur oxides metal oxide/oxides

Special protective equipment for fire-fighters : Be sure to use an approved/certified respirator or equivalent.

#### **ACCIDENTAL RELEASE MEASURES** 6.

Personal precautions

: Do not touch or walk through spilt material. Avoid contact with eyes, skin and

clothing. Use suitable protective equipment (section 8).

**Environmental precautions** 

Kvoid dispersal of spilt material and runoff and contact with soil, waterways, drains

and sewers.

Large spill

: Use a shovel to transfer the material to a convenient waste disposal container.

Dispose of via a licensed waste disposal contractor.

: Vacuum or sweep up material and place in a designated, labelled waste container. **Small spill** 

#### 7. HANDLING AND STORAGE

: Avoid contact with eyes, skin and clothing. Handling

: Keep container tightly closed. Store in a dry, cool and well-ventilated area. **Storage** 

**Packaging materials** 

Recommended : Use original container.

#### 8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure limit values**

**Ingredient name** Occupational exposure limits

alcium sulfate ACGIH TLV (United States, 1/2007). Notes: Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs

(IPM-TLVs) for those materials that are hazardous when

deposited anywhere in the respiratory tract. TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction

ammonium chloride ACGIH TLV (United States, 1/2007).

> TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Fume STEL: 20 mg/m<sup>3</sup> 15 minutes. Form: Fume

**Exposure controls** 

**Occupational exposure** 

controls

this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure

below any recommended or statutory limits.

**Hygiene measures** 

: Ensure that evewash stations and safety showers are close to the workstation location. 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. Wash contaminated clothing before reusing.

**Respiratory protection** 

If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist.

**Hand protection** Cloves.

Fightly-fitting goggles **Eye protection** : Protective clothing. Skin protection

Date of issue/Date of : 2009-11-30. 2/4 revision

**HARDENER 2732** 

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **General information**

**Appearance** 

Physical state : Solid. [Powder.]

Colour : White.

Odour : Faint odour.

Important health, safety and environmental information

**Density** : 1 g/cm<sup>3</sup>

**Solubility**: Miscible in water.

### 10. STABILITY AND REACTIVITY

Stability : The product is stable.

Conditions to avoid : No specific data.

Materials to avoid : No specific data.

Hazardous decomposition: Inder normal conditions of storage and use, hazardous decomposition products

**products** should not be produced.

### 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

Inhalation: Mone.Ingestion: Mone.Skin contact: Mone.

**Eye contact** : Irritating to eyes.

**Acute toxicity** 

Product/ingredient name Result Species Dose Exposure

ammonium chloride LD50 Oral Rat 1650 mg/kg -

### Potential chronic health effects

Chronic effects
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.

**Eyes**: Adverse symptoms may include the following:

irritation watering redness

Target organs : Contains material which may cause damage to the following organs: upper

respiratory tract, skin, eye, lens or cornea.

### 12. ECOLOGICAL INFORMATION

**Environmental effects** 

: There is no data available on the preparation itself.

Aquatic ecotoxicity

**Conclusion/Summary**: No known significant effects or critical hazards.

**Biodegradability** 

**Conclusion/Summary**: No known significant effects or critical hazards.

Date of issue/Date of : 2009-11-30.

### **DISPOSAL CONSIDERATIONS**

**Methods of disposal** 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.

European waste catalogue

(EWC)

: 08 04 09

08 04 09\* waste adhesives and sealants containing organic solvents or other

dangerous substances

**Hazardous waste** Yes.

#### 14. TRANSPORT INFORMATION

### **International transport regulations**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG\*: Packing group

### REGULATORY INFORMATION

### **EU** regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



**Risk phrases** R36- Irritating to eyes. **Product use** : Industrial applications.

#### 16. OTHER INFORMATION

**Full text of R-phrases** referred to in sections 2 and

3 - Europe

R22- Harmful if swallowed.

R36- Irritating to eyes.

**Full text of classifications** referred to in sections 2 and : Xn - Harmful Xi - Irritant

3 - Europe

**History** 

Date of issue/Date of

revision

: 2009-11-30.

**Date of previous issue** 

: 2007-11-12.

**Version** 

: 1.01

**Prepared by** 

**Mikael Olsson** 

▼ Indicates information that has changed from previously issued version.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

## SAFETY DATA SHEET



### **MODIFIER 2731A**

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

**Product name** : MODIFIER 2731A

Code : 2731A : Additive Use of the

substance/preparation

Company/undertaking identification

**Manufacturer** : CASCO ADHESIVES (ASIA) PTE LTD

14 Sungei Kadut Way

Singapore 728788, Singapore Phone: +65 6762 2088

: CASCO ADHESIVES (ASIA) PTE LTD **Distributor** 

14 Sungei Kadut Way

Singapore 728788, Singapore

Phone: +65 6762 2088

E-mail address of person

responsible for this SDS

: hse.adhesives@akzonobel.com

Emergency telephone number : +65 6762 2088

#### 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
kaolin	1332-58-7	25-50	310-194-1	Not classified. [2]
calcium sulfate	7778-18-9	10-25	231-900-3	Not classified. [2]

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

#### 4. FIRST AID MEASURES

**First-aid measures** 

Inhalation : Move exposed person to fresh air. Get medical attention if irritation occurs. Ingestion Wash out mouth with water. Get medical attention if symptoms appear.

Skin contact Wash contaminated skin with soap and water. Get medical attention if irritation

develops.

Check for and remove any contact lenses. Rinse with plenty of running water. Get **Eye contact** 

medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

Date of issue/Date of : 2009-11-05. 1/4

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media** 

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

Special exposure hazards

: No specific fire or explosion hazard.

**Hazardous combustion** products

Decomposition products may include the following materials:

sulfur oxides metal oxide/oxides

Special protective equipment for fire-fighters Be sure to use an approved/certified respirator or equivalent.

#### **ACCIDENTAL RELEASE MEASURES** 6.

Personal precautions : Use suitable protective equipment (section 8).

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains **Environmental precautions** 

and sewers.

Large spill Use a shovel to transfer the material to a convenient waste disposal container. **Small spill** : Vacuum or sweep up material and place in a designated, labelled waste container.

#### 7. HANDLING AND STORAGE

Handling : Avoid contact with eyes, skin and clothing. Do not breathe dust.

**Storage** : Keep container tightly closed. Store in a dry, cool and well-ventilated area.

**Packaging materials** 

Recommended : Use original container.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure limit values**

**Ingredient name** Occupational exposure limits

kaolin ACGIH TLV (United States, 1/2007). Notes: 1996 Adoption

Refers to Appendix A -- Carcinogens. Respirable fraction; see

Appendix C, paragraph C.

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

calcium sulfate ACGIH TLV (United States, 1/2007). Notes: Inhalable fraction.

See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when

deposited anywhere in the respiratory tract.

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction

**Exposure controls** 

Occupational exposure

controls

: If user operations generate dust, fumes, gas, vapour or mist, use process

enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation

> location. 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.

**Respiratory protection** : Dust-protection mask.

**Hand protection** Gloves.

Eye protection Safety glasses.

**Skin protection** No special protection is required.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **General information**

**Appearance** 

**Physical state** : Solid. Colour : White. **Odour** : Faint odour.

Important health, safety and environmental information

: 0,8 g/cm<sup>3</sup> **Density** 

Date of issue/Date of : 2009-11-05. 2/4

**MODIFIER 2731A** 

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Solubility** : Easily soluble in the following materials: cold water.

### 10. STABILITY AND REACTIVITY

Stability : The product is stable.

Conditions to avoid : No specific data.

Materials to avoid : No specific data.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Ingestion : None.
Skin contact : None.

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

### Potential chronic health effects

**Chronic effects** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion: No specific data.Skin: No specific data.

**Eyes** : Adverse symptoms may include the following:

irritation redness

Target organs : Contains material which may cause damage to the following organs: upper

respiratory tract, skin, eye, lens or cornea.

### 12. ECOLOGICAL INFORMATION

**Environmental effects** : There is no data available on the preparation itself.

**Aquatic ecotoxicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

**Biodegradability** 

**Conclusion/Summary**: No known significant effects or critical hazards.

### 13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. The

product is not regarded as hazardous waste. Disposal should be in accordance with

applicable regional, national and local laws and regulations.

**European waste catalogue** 

(EWC)

: 08 04 10

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Hazardous waste : No.

Date of issue/Date of : 2009-11-05.

### 14. TRANSPORT INFORMATION

### **International transport regulations**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG\*: Packing group

### 15. REGULATORY INFORMATION

### **EU regulations**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

**Risk phrases**: This product is not classified according to EU legislation.

Product use : Industrial applications.

Other EU regulations

## 16. OTHER INFORMATION

**History** 

Date of issue/Date of : 2009-11-05.

revision

Date of previous issue : No previous validation.

Version : 1.01

Prepared by : Mikael Olsson

▼ Indicates information that has changed from previously issued version.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

## SAFETY DATA SHEET



**HARDENER 0556** 

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

**Product name** : HARDENER 0556

Code : 0556 Use of the : Hardener

substance/preparation

Company/undertaking identification

Manufacturer : CASCO ADHESIVES (ASIA) PTE LTD

14 Sungei Kadut Way

Singapore 728788, Singapore Phone: +65 6762 2088

**Distributor** : CASCO ADHESIVES (ASIA) PTE LTD

14 Sungei Kadut Way

Singapore 728788, Singapore

Phone: +65 6762 2088

E-mail address of person

responsible for this SDS

: hse.adhesives@akzonobel.com

Emergency telephone number : +65 6762 2088

#### 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification	
ammonium chloride	12125-02-9	5-10	235-186-4	Xn; R22 Xi; R36	[1] [2]
kaolin See section 16 for the full text of the R-phrases declared above	1332-58-7	5-10	310-194-1	Not classified.	[2]

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

#### 4. FIRST AID MEASURES

First-aid measures

Inhalation : Move exposed person to fresh air. Get medical attention if irritation occurs. Ingestion : Wash out mouth with water. Get medical attention if symptoms appear.

**Skin contact** Wash contaminated skin with soap and water. Get medical attention if irritation

develops.

Eye contact : Check for and remove any contact lenses. Rinse with plenty of running water. Get

medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

Date of issue/Date of : 2009-12-10. 1/4

HARDENER 0556

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media** 

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

Special exposure hazards

: No specific fire or explosion hazard.

**Hazardous combustion** products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Special protective equipment for fire-fighters : Be sure to use an approved/certified respirator or equivalent.

#### ACCIDENTAL RELEASE MEASURES 6.

**Personal precautions** : Use suitable protective equipment (section 8).

**Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains

and sewers.

Large spill : Use a shovel to transfer the material to a convenient waste disposal container. **Small spill** : Vacuum or sweep up material and place in a designated, labelled waste container.

#### 7. HANDLING AND STORAGE

Handling : Avoid contact with eyes, skin and clothing. Do not breathe dust.

Storage : Keep container tightly closed. Store in a dry, cool and well-ventilated area.

**Packaging materials** 

Recommended : Use original container.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

**Ingredient name Occupational exposure limits** ammonium chloride ACGIH TLV (United States, 1/2007).

> TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Fume STEL: 20 mg/m<sup>3</sup> 15 minutes. Form: Fume

kaolin ACGIH TLV (United States, 1/2007). Notes: 1996 Adoption

Refers to Appendix A -- Carcinogens. Respirable fraction; see

Appendix C, paragraph C.

TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

**Exposure controls** 

**Occupational exposure** 

controls

: If user operations generate dust, fumes, gas, vapour or mist, use process

enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

: Ensure that eyewash stations and safety showers are close to the workstation **Hygiene measures** 

> location. 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.

**Respiratory protection** : Dust-protection mask.

**Hand protection** Gloves.

**Eye protection** Safety glasses.

**Skin protection** No special protection is required.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

### **General information**

**Appearance** 

**Physical state** : Solid. [Powder.] Colour : Beige. [Light]

Important health, safety and environmental information

**Density** : 1,2 g/cm<sup>3</sup>

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### 10. STABILITY AND REACTIVITY

Stability : The product is stable.

Conditions to avoid : No specific data.

Materials to avoid : No specific data.

**Hazardous decomposition** 

mposition : Under normal conditions of storage and use, hazardous decomposition products

products

should not be produced.

### 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Ingestion : None.
Skin contact : None.

**Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

**Acute toxicity** 

Product/ingredient name Result Species Dose Exposure

ammonium chloride LD50 Oral Rat 1650 mg/kg -

Potential chronic health effects

**Chronic effects** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity
 Mo known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : No specific data.

Skin : No specific data.

**Eyes** : Adverse symptoms may include the following:

irritation redness

Target organs : Contains material which may cause damage to the following organs: upper

respiratory tract, skin, eye, lens or cornea.

### 12. ECOLOGICAL INFORMATION

**Environmental effects** 

: There is no data available on the preparation itself.

**Aquatic ecotoxicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

**Biodegradability** 

**Conclusion/Summary**: No known significant effects or critical hazards.

### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. The

product is not regarded as hazardous waste. Disposal should be in accordance with

applicable regional, national and local laws and regulations.

European waste catalogue

(EWC)

: 08 04 10

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Hazardous waste : No.

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### 14. TRANSPORT INFORMATION

### **International transport regulations**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG\*: Packing group

### 15. REGULATORY INFORMATION

### **EU regulations**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

**Risk phrases**: This product is not classified according to EU legislation.

**Product use** : Industrial applications.

### 16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and

3 - Europe

: R22- Harmful if swallowed. R36- Irritating to eyes.

Full text of classifications : Xn - Harmful referred to in sections 2 and Xi - Irritant

3 - Europe

**History** 

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revision

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Prepared by : Mikael Olsson

**▼** Indicates information that has changed from previously issued version.