1. Identification of the substance/preparation and of the company/undertaking

Product name : AS-602 Concrete Primer

Company : Alseal Marketing Sdn Bhd
Lot 2291, Jalan Kampung Baru,
Kg. Baru Sungai Buloh,
47000, Selangor DE,
Malaysia.

Telephone : +603 - 61579698
Fax : +603 - 61578002
Email : info@alsealmarketng.com
Website : www.alsealmarketing.com

2. Hazard(s) identification

GHS Classification

Health	Environmental	Physical
Resp. Sens. 1 Skin. Sens. 1 Eye Irrit. 2 STOT SE 3	Aquatic Chronic 3	Flam. Liq. 2

Signal word: Warning

Hazard Statement(s):

H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P242 Use explosion-proof equipment.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.

3. Composition/Information on ingredients

Chemical name	CAS No.	EINECS	% (w/w)	Toxicology Data
Butyl ethanoate	123-86-4	204-658-1	< 40	**LD_{50} oral (rat):** > 8,800 mg/kg **LD_{50} dermal (rabbit):** >14,100 mg/kg **LC_{50} inhalation:** >20 mg/L
Acrylic silicon polymer	Trade secret	Trade secret	< 30	**LD_{50} oral (rat):** no data **LD_{50} dermal (rat):** no data

				LC_{50} inhalation: no data
Ethyl ethanoate	141-78-6	205-500-4	< 20	**LD_{50} oral (rat):** > 5,000 mg/kg **LD_{50} dermal (rabbit):** >18,000 mg/kg **LC_{50} inhalation:** >50 mg/L
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	2530-83-8	219-784-2	< 5	**LD_{50} oral (rat):** 8025 mg/kg **LD_{50} dermal (rat):** 4,250 mg/kg **LC_{50} inhalation:** 5.3 mg/L

4. First-aid measures

Inhalation
Remove to fresh air, keep warm and at rest. Contact physician if discomfort persists.
Skin contact
Remove contaminated clothing. Rinse with copious amount of water. Get medical advice if skin irritation or a rash occurs.
Eye contact
Contact lenses should be removed. Rinse with copious amount of water immediately. Seek medical advice if eye irritation persists.
Ingestion
DO NOT induce vomiting. Drink plenty of water followed by milk if available. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable extinguishing media
Use dry chemical powder, foam, carbon dioxide, water fog.
Special fire fighting procedures
Keep up-wind to avoid fumes. Use self-contained breathing apparatus in confined areas.
Unusual fire/explosion hazards
None known.
Thermal decomposition products
Data not available.
Protective measures in fire
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Person-related safety precautions
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
Measure for cleaning/collecting
Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust, etc). Dispose of contaminated material as waste according to item 13.
Additional information:
Prevent spillage from entering drainage/sewer systems. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

7. Handling and storage

Handling
Ensure good ventilation during processing. Do not eat, drink or smoke while handling.
Protection against fire/explosion
General rules of fire prevention should be observed.
Storage

Keep containers and syringes tightly closed and dry. Store in a well-ventilated area, protected from direct sunlight and heat, with temperature below 30 °C.

8. Exposure controls/personal protection

Industrial hygiene
Remove immediately all contaminated clothing. Do not inhale vapor. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke while using the product. Change clothing before leaving workplace and wash before reuse.
Hand protection
Suitable protective gloves like nitrile or viton are recommended. The breakthrough time of the selected glove must be greater than the intended use period.
Respiratory protection
An organic respirator NIOSH-approved for organic vapors is recommended where local ventilation is not adequate.
Eye protection
Protective goggles/safety glasses.

9. Physical and chemical properties

- **Form** : Liquid
- **Color** : Clear
- **Odor** : Sweet smell
- **Boiling temperature** : Not determined
- **Flash point** : -4 °C
- **Solubility in water** : Slightly soluble in water
- **Specific gravity** : 0.98
- **Vapor density** : Not determined

10. Stability and reactivity

Stability and reactivity
Stable when stored under recommended conditions.
Conditions to avoid
Avoid heat, sparks and open flame.
Hazardous decomposition products
During normal storage, hazardous decomposition will not occur. At higher temperatures, decomposition products depends on the temperature, air supply and presence of other materials. Irritant gas and vapors will be produced.
Hazardous polymerization
None known.
Incompatible materials
Contact between ethyl acetate and nitrates, strong oxidizers, strong alkalies, or strong acids may cause fires and explosions. Ethyl acetate reacts vigorously with chlorosulfonic acid, lithium aluminum hydride, 2-chloromethyl furan, oleum, and potassium t-butoxide.
Special Precautions
Ethyl acetate will attack some forms of plastics, rubber, and coatings.

11. Toxicology information

No specific oral, inhalation or dermal toxicology data is known for this product. Any toxicological data included in this section is based on the data associated with the components.

Test	Results
Oral Toxicity	Not classified

Dermal Toxicity	Not classified
Inhalation Toxicity	Not classified
Eye Irritation	Eye irritant, category 2
Dermal Irritation	Not classified
Skin Sensitization	Skin sensitizer, category 1
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified

12. Ecological information

Ecology toxicity : No data available.
Persistence/Degradability : Not readily biodegradable.
Bioaccumulative potential : No data available.
Mobility : No data available.

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented above. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits. Great caution should be taken to prevent release to the environment. See Section 13 for further information.

13. Disposal information

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even in small quantities, should never be poured down into drains, sewers or watercourses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured at the proper mix ratio, may be safely landfilled.

14. Transport information

Road transport (ADR)
- **Proper shipping name** : PAINT or PAINT RELATED MATERIAL
- **Technical name** : Primer
- **UN number** : UN1263
- **Hazard class** : 3
- **Classification code** : F1
- **Packing group** : PG III

Marine transport (IMDG)
- **Proper shipping name** : PAINT or PAINT RELATED MATERIAL
- **Technical name** : Primer
- **UN number** : UN1263
- **Hazard class** : 3
- **EmS** : F-E, S-E
- **Packing group** : PG III
- **Marine pollutant** : No

Air transport (IATA)
- **Proper shipping name** : PAINT or PAINT RELATED MATERIAL
- **Technical name** : Primer
- **UN number** : UN1263
- **Hazard class** : 9

- **Packing group** **:** PG III

15. Regulatory information

EU Classification:

F Highly Flammable

Xi Irritant

EU Risk(R) Phrases:

R11 Highly flammable.
R36/37 Irritating to eyes and respiratory system.
R42/43 May cause sensitisation by inhalation and skin contact.
R52/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EU Safety(S) Phrases:

S2 Keep out of reach of children.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour.
S28 After contact with skin, wash immediately with plenty of water.
S37/39 Wear suitable gloves and eye/face protection.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Inventory Status:

All the components are listed in the Japan ENCS inventories.

16. Other information

Definitions:

- **ENCS** **:** Existing & New Chemical Substances.
- **TLV** **:** Threshold Limit Value.
- **LD_{50}** **:** The minimum dose required for lethal effects in 50% of a given population of test specimens.
- **NIOSH** **:** National Institute for Occupational Safety and Health.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The details contained herein are based on our present state of knowledge and experience in characterizing our product with regard to any possible safety requirement. We do, however, pass them on without any warranty or property assurances.