

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name ETHOSTICK 15

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance/Mixture**

- Surfactant
- Use in agrochemical applications

**Remarks**

- For professional and industrial installation and use only.

**1.3 Details of the supplier of the safety data sheet****Company**

PT. Andalan Chemist Indonesia  
Jl. Rawa Bambu Raya A/6 Pasar Minggu, Jakarta 12520, Indonesia  
Phone : (62-21) 780 6618  
Fax : (62-21) 782 2487

**E-mail address**

aci@andalanchemist.com

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Globally Harmonized System of Classification and Labelling of Chemicals (GHS)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

**2.2 Label elements****Globally Harmonized System of Classification and Labelling of Chemicals (GHS)****Hazardous products which must be listed on the label**

- \*\*\*\*\* Surfactant Blend

**Pictogram****Signal word**

- Danger

**Hazard statements**

- |        |  |
|--------|--|
| - H302 | Harmful if swallowed.                            |
| - H318 | Causes serious eye damage.                       |
| - H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**General

- None

Prevention

- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear eye protection/ face protection.

Response

- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P391 Collect spillage.

Storage

- Not applicable

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards which do not result in classification**

None known.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Not applicable, this product is a mixture.

**3.2 Mixture**

- Chemical nature Aqueous solution

**Information on Components and Impurities**

Chemical name	CAS-No.	Identification number	GHS Classification	Concentration [%]
Surfactant Blend	*****	*****	Acute toxicity, Category 4 ; H302 Serious eye damage, Category 1 ; H318 Long-term (chronic) aquatic hazard, Category 2 ; H411	15%

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**General advice

- First aider needs to protect himself.
- Show this safety data sheet to the doctor in attendance.
- Place affected clothing in a sealed bag for subsequent decontamination.
- When symptoms persist or in all cases of doubt seek medical advice.

In case of inhalation

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

**In case of skin contact**

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with soap and plenty of water.
- Use a mild soap if available.
- If skin irritation occurs, seek medical advice/attention.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids.
- Take victim immediately to hospital.
- Continue rinsing eyes during transport to hospital.

**In case of ingestion**

- Do not induce vomiting without medical advice.
- Rinse mouth with water.
- Do not give anything to drink.
- Keep at rest.
- Consult a physician if necessary.
- If a large amount is swallowed, get medical attention.

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

- no data available

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

- no data available

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

- Extinguishing media - small fires
- Water spray
- Multi-purpose powders
- Carbon dioxide (CO<sub>2</sub>)
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
- Extinguishing media - large fires
- Water spray
- Multi-purpose powders
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)

**Unsuitable extinguishing media**

- Do not use a solid water stream as it may scatter and spread fire.

**5.2 Special hazards arising from the substance or mixture****Specific hazards during firefighting**

- The pressure in sealed containers can increase under the influence of heat.
- Aqueous liquid. Does not present any particular risk in the event of a fire.
- Hazardous decomposition products formed under fire conditions.
- (following evaporation of water)
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.

**Hazardous combustion products:**

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**5.3 Advice for firefighters****Special protective equipment for firefighters**

- Wear full protective clothing and self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

**Specific fire fighting methods**

- Stay upwind.
- Fight fire with normal precautions from a reasonable distance.
- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Further information**

- Evacuate personnel to safe areas.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment
- Wear suitable gloves.
- Wear suitable protective clothing.
- Wear as appropriate:
  - Face-shield
  - Tightly fitting safety goggles
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapour formation use a respirator with an approved filter.
- Stop leak if safe to do so.
- If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire brigade).
- For further information refer to section 8 "Exposure controls/personal protection".

## 6.2 Environmental precautions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.
- Local authorities should be advised if significant spillages cannot be contained.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.

## 6.3 Methods and materials for containment and cleaning up

- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.
- Wash non-recoverable remainder with large amounts of water.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of as hazardous waste in compliance with local and national regulations.

### Additional advice

- Material can create slippery conditions.

## 6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Wear suitable protective clothing.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Avoid formation of aerosol.
- For personal protection see section 8.

**Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Keep in a bunded area.
- The floor of the storage area should be impermeable and designed to form a water-tight basin.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer
- Do not freeze.
- Keep away from: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

**Packaging material****Suitable material**

- Plastic materials.
- Coated metals.
- Stainless steel

**Requirements for storage rooms and vessels**

- Do not freeze.

**7.3 Specific end use(s)**

- no data available

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

- Contains no substances with occupational exposure limit values above their regulatory reporting threshold.

**8.2 Exposure controls****Control measures****Engineering measures**

- Effective exhaust ventilation system
- Ensure adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

**Individual protection measures****Respiratory protection**

- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.

**Hand protection**

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Use only personal protective equipment that conforms to international/ national standards (KOSHA, etc.).

**Suitable material**

- Neoprene
- Nitrile rubber
- butyl-rubber

**Eye protection**

- Tightly fitting safety goggles
- Face-shield

**Skin and body protection**

- Full protective suit
- Footwear protecting against chemicals
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

**Protective measures**

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local regulations and in cooperation with the supplier of the protective equipment.

**Environmental exposure controls**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.

- Local authorities should be advised if significant spillages cannot be contained.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Odour No data available

Odour Threshold No data available

pH 5.0 - 7.0 ( 5 %)  
Aqueous solution

Melting point/freezing point No data available

Initial boiling point and boiling range No data available

Flash point Not applicable (aqueous liquid).

Evaporation rate (Butylacetate = 1) No data available

Flammability (solid, gas) No data available

Flammability (liquids) No data available

Flammability/Explosive limit No data available

Auto-ignition temperature No data available

Vapour pressure No data available

Vapour density No data available

Density ca. 1.01 g/ml ( 25 °C)

Relative density No data available

Solubility Water solubility:  
completely soluble

Partition coefficient: n-octanol/water No data available

Decomposition temperature No data available

Viscosity No data available

Explosive properties No data available

Oxidizing properties No data available

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- Stable at normal ambient temperature and pressure.



**10.2 Chemical stability**

- Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

- No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid excessive heat for prolonged periods of time.

**10.5 Incompatible materials**

- Strong oxidizing agents

**10.6 Hazardous decomposition products**

- On combustion or on thermal decomposition (pyrolysis) releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**SECTION 11: Toxicological information****11.1 Information on toxicological effects.****Acute toxicity****Acute oral toxicity**

Surfactant Blend

This product is classified as acute toxicity, category 4  
category approach  
CESIO

**Acute inhalation toxicity**

No data available

**Acute dermal toxicity**

Surfactant Blend

Not classified as hazardous for acute dermal toxicity according to GHS.  
category approach

**Acute toxicity (other routes of administration)**

No data available

**Skin corrosion/irritation**

Surfactant Blend

Not classified as irritating to skin  
category approach  
CESIO

**Serious eye damage/eye irritation**

Surfactant Blend

Irreversible effects on the eye  
category approach  
CESIO

**Respiratory or skin sensitisation**

Surfactant Blend

category approach  
The product is not considered to be sensitizing by skin contact.

**Mutagenicity****Genotoxicity in vitro**

Surfactant Blend

category approach  
Product is not considered to be genotoxic



**Genotoxicity in vivo** No data available

**Carcinogenicity** No data available

#### **Toxicity for reproduction and development**

**Toxicity to reproduction/Fertility** No data available

**Developmental Toxicity/Teratogenicity** No data available

#### **STOT**

##### **STOT - single exposure**

Surfactant Blend

Exposure routes: Ingestion, Skin contact

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.  
category approach, internal evaluation

##### **STOT - repeated exposure**

Surfactant Blend

Exposure routes: Ingestion

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.  
category approach, internal evaluation

Surfactant Blend

category approach

Subchronic toxicity

Not considered to cause serious damage to health on repeated exposure

#### **Experience with human exposure**

No data available

#### **Aspiration toxicity**

No data available

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Aquatic Compartment**

##### **Acute toxicity to fish**

Surfactant Blend

category approach  
Toxic to fish.

##### **Acute toxicity to daphnia and other aquatic invertebrates**

Surfactant Blend

category approach  
Toxic to aquatic invertebrates.

##### **Toxicity to aquatic plants**

Surfactant Blend

category approach

No adverse chronic effect observed up to and including the threshold of 1 mg/L.

<b>Toxicity to microorganisms</b>	No data available
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<b>Chronic toxicity to fish</b>	No data available
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<b>Chronic toxicity to daphnia and other aquatic invertebrates</b>	No data available
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**12.2 Persistence and degradability**

<b><u>Abiotic degradation</u></b>	No data available
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<b><u>Physical- and photo-chemical elimination</u></b>	No data available
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**Biodegradation**

<b>Biodegradability</b> Surfactant Blend	Ready biodegradability study: The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability category approach Expert judgement

**Degradability assessment**

Surfactant Blend	The product is not considered to be rapidly degradable in the environment

**12.3 Bioaccumulative potential**

<b>Partition coefficient: n-octanol/water</b> Surfactant Blend	Not applicable Surface-Active

<b>Bioconcentration factor (BCF)</b> Surfactant Blend	category approach Expert judgement Not potentially bioaccumulable

**12.4 Mobility in soil**

<b>Adsorption potential (Koc)</b>	No data available
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<b>Known distribution to environmental compartments</b>	No data available
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**12.5 Results of PBT and vPvB assessment**

Surfactant Blend	Not classified as PBT substance. Not classified as vPvB.
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**12.6 Other adverse effects****Ecotoxicity assessment**

<b>Short-term (acute) aquatic hazard</b> Surfactant Blend	Toxic to aquatic life.

Surfactant Blend	Toxic to aquatic life with long lasting effects.

Long-term (chronic) aquatic hazard

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product Disposal*****Prohibition***

- Do not discharge directly into the environment.
- Do not dispose of with domestic refuse.
- Dispose of as hazardous waste in compliance with local and national regulations.

**Advice on cleaning and disposal of packaging*****Prohibition***

- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.
- Empty remaining contents.
- Clean using steam.
- Monitor the residual vapours.
- Dispose of rinse water in accordance with local and national regulations.
- Containers that cannot be cleaned must be treated as waste.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.
- In accordance with IMDG regulations, containers or tankers, which have not been cleaned or deodorized and which previously contained a hazardous product, must either be labelled or have hazard signs.
- In accordance with RID/ADR regulations containers or tankers, which have not been cleaned or deodorized and which previously contained a hazardous product, must either be labelled or have hazard signs.
- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

**SECTION 14: Transport information****ADR**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Surfactant Blend)
<b>14.3 Transport hazard class</b>	9
Label(s):	9
<b>14.4 Packing group</b>	
Packing group	III
Classification Code	M6
<b>14.5 Environmental hazards</b>	YES
<b>14.6 Special precautions for user</b>	
Tunnel restriction code	(-)
Hazard Identification Number:	90

For personal protection see section 8.



## ETHOSTICK 15

Revision Date 02.07.2020

**RID**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Surfactant Blend)
<b>14.3 Transport hazard class</b>	9
Label(s):	9
<b>14.4 Packing group</b>	
Packing group	III
Classification Code	M6
<b>14.5 Environmental hazards</b>	YES
<b>14.6 Special precautions for user</b>	

For personal protection see section 8.

**IMDG**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Surfactant Blend)
IMDG Code segregation group	Not Relevant
<b>14.3 Transport hazard class</b>	9
Label(s):	9
<b>14.4 Packing group</b>	
Packing group	III
<b>14.5 Environmental hazards</b>	YES
<b>Marine pollutant</b>	
<b>14.6 Special precautions for user</b>	
EmS	F-A , S-F

For personal protection see section 8.

**14.7 Transport in bulk vessels according to IMO instruments**

No data available

**IATA**

<b>14.1 UN number</b>	UN 3082
<b>14.2 Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Surfactant Blend)
<b>14.3 Transport hazard class</b>	9
Label(s):	9
<b>14.4 Packing group</b>	
Packing group	III
<b>14.5 Environmental hazards</b>	YES
<b>14.6 Special precautions for user</b>	
Packing instruction (cargo aircraft)	964
Max net qty/pkg	450.00 L
Packing instruction (passenger aircraft)	964
Max net qty/pkg	450.00 L



For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

## SECTION 15: Regulatory information

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

#### Local regulations

No data available

#### Notification status

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- All components are listed on the NZIOC inventory. The HSNO status of the product has not been assessed.
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.

**SECTION 16: Other information****Full text of H-Statements**

- |        |  |
|--------|--|
| - H302 | Harmful if swallowed.                            |
| - H318 | Causes serious eye damage.                       |
| - H411 | Toxic to aquatic life with long lasting effects. |

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.