

# SAFETY DATA SHEET

## ACCORDING TO 1907/2006/EC, 453/2010/EU, 2015/830/EU (REACH)

### ZAP

Revised on / Version: 25/01/2017 / 0002  
Replaces revision of / Version: 09.2015 / 0001

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

- 1.1 Product Identifier**  
**Product Name** : ZAP  
**Product description** : Straw coloured Liquid Adjuvant  
**Product Type** : Liquid
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Relevant uses: Additive to reduce surface tension of water.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet**  
Ag-Chem Africa (Pty) Ltd  
288 Mundt Street  
Waltloo  
Pretoria  
South Africa  
Tel: +27(0)12 803 0145  
Fax: +27(0)12 803 8418
- 1.4 Emergency telephone number**  
**National advisory body/Poison Centre**  
**Telephone number** : SOUTH AFRICA  
Griffon Poison Information Centre  
(24 Hour Poisoning Emergency Helpline)  
+27(0)82 446 8946

#### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) no 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.  
Eye Dam. 1: Eye Damage, Category 1, H318

## 2.2 Label elements CLP Regulation (EC) no 1272/2008:

Hazard pictogram(s) :



Signal word : Danger  
Hazard statement(s) : H318 - Causes serious eye damage

Precautionary statement(s) :

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.

## 2.3 Other hazards Non-applicable

## SECTION 3: Composition/information on ingredients

3.1 Substance:  
Non-applicable

3.2 Mixture:  
Chemical description: Mixture  
Component(s):

Chemical Name:	Fatty Alcohol Ethoxylate
CAS:	-
EC:	935-144-1
Index:	-
REACH:	-
Formulation:	Total Active Ingredients = 912 g/kg

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Do NOT give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

#### By skin contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

#### By eye contact:

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove any contact lenses after 5 minutes. Get medical attention if necessary.

**By ingestion / aspiration:**

Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Induce vomiting immediately as directed by medical personnel. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice if necessary.

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

**Inhalation:** May cause irritation to the mucous membranes of the respiratory tract. May be absorbed from the mucous membranes and depending on the amount of exposure could result in the development of nausea, vomiting, and diarrhoea.

**Ingestion:** Symptoms parallel absorption via inhalation.

**Skin Contact:** May cause skin irritation. Not significantly absorbed through the intact skin. Readily absorbed through damaged or burned skin.

**Eye Contact:** Causes irritation, redness and pain.

**Chronic exposure:** Prolonged absorption causes weight loss, vomiting, diarrhoea, and skin rash.

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

**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:** Treat symptomatically.

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

Use dry chemical, Carbon Dioxide, dry powder or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock.

**Unsuitable extinguishing media:**

No information available.

**5.2 Special hazards arising from the substance or mixture****Hazards from the substance or mixture:**

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 carbon monoxide fumes, carbon dioxide fumes.

**5.3 Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

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

Ventilate area of leak or spill. Wear appropriate personal protective equipment.

**6.2 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). Collect spillage.

### 6.3 Methods and materials for containment and cleaning up

**Spills:**

Dilute with water and mop up, or absorb with sand or an inert dry material and put in a suitable container for reclamation or disposal. If necessary, neutralize the residue with a dilute solution of sodium carbonate.

**Large Spills:**

Dyke far ahead of liquid spills for later disposal. Absorb with sand or an inert dry material and put in a suitable container for reclamation or disposal. Prevent entry of the substance into waterways, sewers, basements or confined areas.

### 6.4 Reference to other sections:

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

### 7.1 Precautions for safe handling:

**A.- Precautions for safe manipulation**

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

**B.- Technical recommendations for the prevention of fires and explosions**

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

**C.- Technical recommendations to prevent ergonomic and toxicological risks**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

### 7.2 Conditions for safe storage, including any incompatibilities:

**A.- Technical measures for storage**

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 36 Months

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

### 8.1 Control parameters

No information available.

## 8.2 Exposure controls

### Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### 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.

#### 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. Possible: safety glasses with side-shields

### Skin protection

#### Hand protection:

Protective gloves against minor risks.

#### Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection:

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

#### Respiratory protection:

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

#### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. No significant release into the air is expected.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

For complete information, please refer to product datasheet.

#### Appearance

Physical state : Liquid  
 Colour : Straw coloured  
 Odour : Fatty odour

#### Volatility:

Boiling point at atmospheric pressure : > 217°C  
 Vapour pressure at 20 °C : Non-applicable \*  
 Vapour pressure at 50 °C : Non-applicable \*  
 Evaporation rate at 20 °C : Non-applicable \*

#### Product description:

Density at 20 °C : 0.912  
 Relative density at 20 °C : Non-applicable \*  
 Dynamic viscosity at 20 °C : Non-applicable \*  
 Kinematic viscosity at 20 °C : Non-applicable \*  
 Kinematic viscosity at 40 °C : Non-applicable \*  
 pH : 5  
 Vapour density at 20 °C : 10.22  
 Partition coefficient n-octanol/water 20 °C : Non-applicable \*

Solubility in water at 20 °C	: Forms an emulsion in water.
Solubility properties	: Non-applicable *
Decomposition temperature	: Non-applicable *
Melting point/freezing point	: Non-applicable *
Explosive properties	: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
Oxidising properties	: Non-applicable *
<b>Flammability:</b>	
Flash Point	: Non-applicable *
Autoignition temperature	: Non-applicable *
Lower flammability limit	: Non-applicable *
Upper flammability limit	: Non-applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Will not occur under normal conditions of storage, handling and use.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Oxidizing agents, reducing agents, metals, acids, alkali's.

### 10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

ZAP			
	Species	Dose	Exposure
LD <sub>50</sub> Oral	Rat	> 4 215 mg/kg	-
LD <sub>50</sub> Dermal	Rabbit	> 10 000 mg/kg	-

**Dangerous health implications:**

Very low toxicity to humans and animals.

**A.- Ingestion (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**B- Inhalation (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Contact with the eyes: Based on available data, the classification criteria are met. Refer to Section 3.

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**E- Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**F- Specific target organ toxicity (STOT)-time exposure:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**H- Aspiration hazard:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**Other information:**

Non-applicable

## SECTION 12: Ecological information

### 12.1 Toxicity:

ZAP			
	Acute toxicity	Species	Genus
LC50	88 mg./L (96 h)	Fathead minnow	Fish
LC50	0.08 mg./L (24 h)	Rainbow trout	Fish
EC50	No data available	No data available	No data available

#### Conclusion/Summary:

May be toxic to aquatic life.

### 12.2 Persistence and degradability:

Readily biodegradable

### 12.3 Bioaccumulative potential:

No data available.

### 12.4 Mobility in soil:

No data available.

### 12.5 Results of PBT and vPvB assessment:

No data available.

### 12.6 Other adverse effects:

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted.

### 13.1 Waste treatment methods

#### Product

##### Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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.

##### Hazardous waste:

Non-hazardous waste.

#### Packaging

##### Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

##### Special precautions:

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**

	Land transport (ADR/RID)	Inland waterway transport (AND/ADNR)	Sea Transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
<b>14.1 UN Number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No	No
<b>14.6 Special precautions for user</b>	No data available	No data available	No data available	No data available
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	-	-	-	-

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable  
Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable  
Active substances not included in Annex I under Regulation (EU) No 528/2012: Non-applicable  
REGULATION (EU) No 689/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH,etc ....):**

Non-applicable

**Other legislation:**

Law No.360 / 2003 on the dangerous substances and preparations

Law nr.349 / 2007 regarding the reorganization of the institutional framework for chemicals management

Law no.249 / 2011 to amend article 4 of Law nr.349 / 2007 on the reorganization of the institutional framework chemicals management

Government Decision no. 477/2009 on the establishment of penalties for infringements of the provisions of Regulation (EC) No. 1.907 / 2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45 / EC and repealing Regulation (EEC) No. 793/93 and Regulation (EC) no. 1.488 / 94 Commission and Council Directive 76/769 / EEC and Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC Commission Law no.254 / 2011 amending article 26 of Law No.360 / 2003 on the preparations and substances dangerous GD nr.662 / 2011 repealing Government Decision no. 347/2003 regarding restrictions on the marketing and use of certain dangerous substances and preparations.

Emergency Ordinance no.60 / 2013 for completing art. 4 para. (1) of Law no. 349/2007 on the reorganization framework institutional management of chemicals GD Nr.1408 / 2008 and Annexes 1-6 on classification, packaging and labeling of dangerous substances GD nr.937 / 2010 and Annexes 1 to 5 on the classification, packaging and labeling in the marketing of dangerous preparations  
GD no.122 / 2010 on the penalties applicable to infringements of the provisions of Regulation (EC) no.1272 / 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) no.1907 / 2006  
GD no.398 / 2010 establishing measures to enforce the provisions of Regulation (EC) nr.1272 / 2008 on classification, labeling and packaging of substances and mixtures.  
Decision no. 1218/2006 establishing minimum safety requirements for ensuring occupational health and protection workers from risks related to chemical agents.  
Law no. 319/2006 - Law on safety and health at work  
GD 621/2005 on the management of packaging and packaging waste.  
GD 1872/2006 amending and supplementing Government Decision 621/2005 on the management of packaging and packaging waste  
The Waste Regulations 2011, 2011 No. 988.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**15.2 Chemical Safety Assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: Other information**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

**Modifications related to the previous security card which concerns the ways of managing risks. :**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

**Texts of the legislative phrases mentioned in section 3:**

Non-applicable

**CLP Regulation (EC) n° 1272/2008:**

Eye Dam. 1: H318 – Causes serious eye irritation

**Classification procedure:**

Non-applicable

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Relevant P-, H- and EUH-phrases (number and full text)**

H318 - Causes serious eye damage

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol–water partition coefficient

KOC: PARTITION COEFFICIENT OF ORGANIC CARBON

**Date of revision** : 25/01/2017

**Version** : 2

**Notice to reader**

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