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## I.- IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

**1.1 Product identifier:** CUTER (Mesotrione 10% w/v).

**1.2 Relevant identified uses of the mixture and uses advised against:** A selective herbicide for the control of annual broad-leaved weeds and barnyard grass in grain and forage maize. Do not use for any other purpose.

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

Industrias AFRASA, S.A.  
 c/ Ciudad de Sevilla, 53. Tel: 96 132 17 00, Fax: 96 132 17 16,  
 46988 Pol. Ind. Fuente del Jarro. Paterna. VALENCIA (ESPAÑA)  
[www.afrasa.es](http://www.afrasa.es)    [afrasa@afrasa.es](mailto:afrasa@afrasa.es)    [fmonfort@afrasa.es](mailto:fmonfort@afrasa.es)

**1.4 Emergency telephone number:**

For advice on medical emergencies, fires or major spills: +44 (0) 1235 239 670.

Available: 24 h.

Time zone: GMT.

Language(s) of phone service: All EU languages.

**National Emergency Telephone Numbers**

UK National Poisons Information Service: +44 (0)121 507 4123 (For health professionals only).

Available: 24h.

Time Zone: GMT.

Language(s) of phone service: English.

## II.- HAZARDS IDENTIFICATION

**2.1 Classification of the preparation:**

**According to classification rules (UE) of 1272/2008 (CLP):** Serious eye damage, Cat.1; Skin sensitisation. Cat 1B; Hazardous to the aquatic environment- Acute cat.1. Hazardous to the aquatic environment- chronic. Cat 1.

**2.2 Label elements:**

**According to classification 1272/2008 (CLP):**

**Pictogram:**



**Signal word:** Danger.

**Hazard statements:**

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H410: Very toxic to aquatic life with long lasting effects.

**General precautionary Statements:** none.


**Prevention precautionary statements:**

P261: Avoid breathing fumes or spray.

P280: Wear protective gloves, protective clothing, eye protection and face protection.

**Response precautionary statements:**

P302+ P352: IF ON SKIN: Wash with plenty of soap and water.

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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.

P333+P313: If skin irritation or rash occurs: get medical advice/attention.

P391: Collect spillage.

**Storage precautionary statements:** None.

**Disposal precautionary statements:**

P501: Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

**Supplemental information:**

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

SP1: Do not contaminate water with the product or its container.







SPo2: Wash all protective clothing after use.

**2.3 Other hazards:** None known.


**III.- COMPOSITION / INFORMATION ON INGREDIENTS**

**3.2 Mixtures.**

**Description of the mixture:** Mixture of mesotrione and co-formulants.

<b>DANGEROUS COMPONENT</b>	<b>IDENTIFIERS</b> CAS nr./ CE nr. REACH Nr.	<b>% w/v</b>	<b>CE Classification</b> <b>REGULATION (CE) 1272/2008 [CLP]</b>
MESOTRIONE	104206-82-8	10%	Aquatic Acute, Cat. 1; H400. Aquatic Chronic, Cat. 1: H410  Warning
n-octanol	111-87-5 203-917-6	5-10 %	Skin Irrit, Cat. 2: H315. Eye irritation, Cat.2 : H319.  Warning
Ethoxylated polyarylphenol acid phosphate	90093-37-1	0-5%	Skin Irrit, Cat. 2: H315. Eye irritation, Cat.2 : H319.  Warning
Ethoxylated fatty alcohol	68526-85-2	20-30%	Acute Tox, Cat.4: H302. Eye Dam, Cat.1: H318   Danger.
Phosphoric acid 85%	7664-38-2 231-633-2 015-011-00-6	0-5%	Skin corr, Cat.1B: H314.  Danger
Other ingredients		TO 100%	Not classified

For full text of H-phrases and abbreviations, see section XVI.

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#### IV.- FIRST AID MEASURES

##### 4.1 Description of first aid measures:

**General notes:** If symptoms occur after exposure to this product, seek medical attention immediately and show the product label or this SDS. Remove to fresh air and keep at rest. Do not allow smoking or eating. Take off all contaminated clothing and footwear.

**Following inhalation:** Remove to fresh air and keep at rest in half-upright position. Seek medical attention immediately.

**Following eye contact:** Immediately rinse with water. Holding eyes open, continue rinsing for 15 minutes at least. Remove contact lenses as soon as possible. Seek medical attention immediately.

**Following skin contact:** Remove all contaminated clothing. Wash skin with soap and rinse with plenty of water. Seek medical attention if irritation arises. Wash clothes before re-use.

**Following ingestion:** If swallowed, DO NOT INDUCE VOMITING: seek medical advice immediately and show this container or label. Remove any residues from mouth and rinse it with plenty of water. Offer the casualty 1 or 2 glasses of water to drink. Never give anything by mouth to an unconscious person.

**Self-protection of first aider:** Personal protective equipment for first aid responders is recommended according to potential for exposure (refer to section 8).

##### 4.2 Most important symptoms and effects, both acute and delayed. Potential acute health effects:

The symptoms and the effects indicated in this section refer to an accidental exposure scenario.

**Following inhalation:** Possible slight nasal irritation and discharge. No delayed effects expected.

**Following skin contact:** Possible irritation and redness. May cause an allergic skin reaction following repeated contact.

**Following eye contact:** Possible serious irritation and redness. May cause serious and potentially irreversible eye damage.

**Following ingestion:** Possible mild gastrointestinal effects. No delayed effects expected.

##### 4.3 Indication of any immediate medical attention and special treatment needed:

No need to provide any special means/medicinal products for immediate treatment at the workplace.

**Notes for the doctor:** NO specific antidote. Treat symptomatically (decontamination, vital functions). Call a Poison Centre immediately for treatment advice. In case of ingestion gastric lavage may be necessary (with proper laryngeal control). Before emptying the stomach, assess the potential danger arising from lung aspiration against the product toxicity. Report to Industrias Afrasa, S.A any unusual symptoms occurring after exposure by any route.

#### V.- FIREFIGHTING MEASURES


##### 5.1 Extinguishing media:

**Suitable extinguishing media:** Carbon dioxide, water spray, alcohol-resistant foam, dry chemical for small fires, alcohol-resistant foam or water spray for large fires.

**Unsuitable extinguishing media:** Solid water jet.

##### 5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: Evolves toxic and corrosive fumes in fire including carbon oxides, nitrogen and sulphur oxides, hydrogen cyanide.

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**5.3 Advice for fire-fighters:** Clothing conforming to EN469 should be sufficient to deal with fires involving the mixture. However, a self-contained breathing apparatus (SCBA) may be required if there is a potential for exposure to combustion fumes.

**5.4 Additional information:** Provide storage and work areas with suitable fire extinguishers. Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings.

## VI.- ACCIDENTAL RELEASE MEASURES

### **6.1 Personal precautions, protective equipment and emergency procedures:**

For non-emergency personnel:

- Protective equipment: Remove immediately any contaminated clothing. Wear prescribed personal protective equipment to prevent contact with eyes and skin. A Self-Contained Breathing Apparatus (SCBA) may be required if there is an elevated risk for exposure.
- Emergency procedures: Call the emergency services if the release is not immediately controllable. If the release is localized and immediately controllable, provide sufficient ventilation and control the release at its source.

For emergency responders: Clothing conforming to EN469.

**6.2 Environmental precautions:** Use appropriate containment to avoid environmental contamination. Control the release at its source. Contain the spill to prevent it from spreading, contaminating soil or entering sewage and drainage systems or any body of water. Inform the local water company if the release enters drains and the Environment Agency (England and Wales), the Scottish Environmental Protection Agency (Scotland) or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters.

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

For containment: Clean up spills immediately and place in a compatible disposal container. Contain spill by diking with earth, sand or non-combustible absorbent material and place into a compatible marked disposal container. For cleaning up: Scrub area with a hard water detergent. Soak up wash liquid with additional absorbent material and place into a compatible marked disposal container. Seal container and arrange for disposal.


**6.4 Reference to other sections:** Refer to section 8 for personal protective equipment and to section 13 for disposal instructions.

## VII.- HANDLING AND STORAGE

**7.1 Precautions for safe handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide suitable ventilation in the areas where the product is stored and used. Contaminated work clothing is not allowed out of the workplace. Avoid all contact by mouth, with eyes and skin. Wear personal protective equipment as specified in Section 8. When using, do not eat, drink or smoke. Remove contaminated clothing and protective equipment before meals and after work. Wash hands and exposed skin before meals and after work. Wash all protective clothing thoroughly after use, especially the insides of gloves.

**7.2 Conditions for safe storage, including any incompatibilities:** The mixture is stable under normal ambient conditions. Keep in original container, in a dry, cool and safe place. Store in a locked, suitable store. Keep away from any source of ignition. Keep out of the reach of children and unauthorised personnel. Keep away from food, drink and animal feeding stuffs.

**7.3 Specific end use(s):** The product is for professional use as directed by the product label. Every other use is hazardous.

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**VIII.- EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters:**

**Occupational Exposure limit values:** Occupational Exposure limit values have been set for the following component.

COMPONENTS	OCCUPATIONAL EXPOSURE LEVELS					Reference
	8H-TWA		Short-term			
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm		
Phosphoric acid 7664-38-2	1		2			UK-EH40
Propylene glycol 57-55-6	474	150	-	-	Total vapour and particulates	UK-EH40
	10	-	-	-		

Information on monitoring procedures: None available.

**8.2 Exposure controls:**

**Appropriate engineering controls:** Engineering controls and appropriate work processes must be used to eliminate or reduce worker and environmental exposure in the areas where the substance is handled, transported, loaded, unloaded, stored and used. These measures must be adequate for the extent of the actual risk. Provide adequate local exhaust ventilation. Use specialized transfer systems if available. Arrange for eye wash facility.

**Personal protection equipment:**

**Respiratory protection:**



No special requirement when used as recommended. If a risk assessment shows that engineering controls do not provide adequate respiratory protection to exposure to spray particles, wear particle filtering half mask (EN149) or half mask connected to particle filter (EN140 + 143).

**Hand protection:**



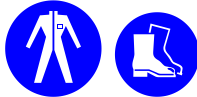
Wear suitable protective gloves against chemicals (EN374 part 1,2, 3). Nitrile rubber min. 0.5mm thick and 300mm long gloves are the ones proven to be the most suitable according to test on pesticides products. Wash the gloves thoroughly after each use, especially the insides. Replace gloves if damaged and before exceeding the breakthrough time

**Eye and face protection:**




Avoid contact with eyes. If there is a significant potential contact, wear suitable eye and face protection (EN166).

**Skin protection and body:**



Avoid contact with skin. If there is a significant potential for contact, wear suitable coveralls (ISO 13982-1, Type 5, EN 13034, Type 6)

**Environmental exposure controls:** Implement all applicable local and community environmental protection legislation. Refer to section 15. Use appropriate containment to avoid environmental contamination. Do not empty into drains. Do not contaminate water with the product or used container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. Refer to section 12 and 13.

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## IX.- PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

All the data contained in this section are derived from actual test data on the mixture unless otherwise stated.

**Appearance:** Liquid.

**Colour:** dark cream.

**Odour:** Similar to octanol.

**Odour threshold:** Not determined- not required under all applicable pesticide legislation.

**pH:** 2.45 undiluted formulation.

**Melting point/freezing point:** Not applicable. The mixture is a liquid at ambient temperature and must be protected from frost.

**Initial boiling point and boiling range:** Approximately 100°C.

**Flash point:** No flash was detected at or below 100°C- the mixture is water-based.

**Evaporation rate:** Not available- not required under all applicable pesticide legislation.

**Flammability (solid, gas):** Not applicable (liquid).

**Upper/lower flammability or explosive limits:** Not applicable- the mixture is water-based.

**Vapour pressure:** No significant volatility- the mixture is water-based.

**Vapour density:** Not available- not required under all applicable pesticide legislation.

**Relative density:** 1.07 g/cc at 20°C.

**Solubility (ies):**

-Solubility (water): Completely miscible in water.

**Partition coefficient: n-Octanol/water:** Not available.

**Auto\_ignition temperature:** >400°C.

-Minimum ignition temperature: Not available.

-Minimum Ignition energy: Not available.

**Decomposition temperature:** Not available.

**Viscosity:** 28070 mPa at 20°C and 0.10 s<sup>-1</sup>, 29727 =2.84 mPa at 40°C and 0.10 s<sup>-1</sup>.

**Explosive properties:** Explosion hazard: Not explosive.

**Oxidizing properties:** Not an oxidizing agent.

### 9.2 Other information:

**Surface tension:** 67.82 mN/m (20°C).

**Flammability (in contact with water):** Not flammable.

## X.- STABILITY AND REACTIVITY

**10.1 Reactivity:** Non-reactive when stored in original container under normal conditions of storage and use.


**10.2 Chemical stability:** Stable when stored in original container under normal conditions of storage and use.

**10.3 Possibility of hazardous reactions:** No hazardous reactions when stored in original container under normal conditions of storage and use. Reacts with strong bases and strong oxidising substances.

**10.4 Conditions to Avoid:** Do not store in proximity of sources of ignition and direct sunlight.

**10.5 Incompatible materials:** Avoid contact with strong bases and strong oxidising substances.

**10.6 Hazardous decomposition products:** During decomposition evolves toxic fumes including hydrogen fluoride, nitrogen and sulphur oxides, hydrogen cyanide.

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## XI.- TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### 11.1.2 Mixtures:

All the data contained in this section are derived from actual test data on the mixture unless otherwise stated.

##### a) Acute toxicity:

<u><b>Acute toxicity</b></u>	CUTER
Acute toxicity – ORAL	> 2000 mg/kg bw
LD <sub>50</sub> mg/kg (rats)	
Acute toxicity – DERMAL	>2000 mg/kg bw
LD <sub>50</sub> mg/kg (rabbit)	
Acute toxicity – INHALATION	> 5 mg/L air
LC <sub>50</sub> mg/L air. (rats)	

- b) **Skin corrosion/ Irritation:** Not irritant. Not classified as a skin irritant under Regulation (EC) 1272/2008.
- c) **Serious eye damage/ irritation:** Serious eye irritant. Classified as Eye Damage Category 1 under Regulation (EC) 1272/2008.
- d) **Respiratory or skin sensitization:** Sensitizer- classified as a skin sensitizer Category 1 under Regulation (EC) 1272/2008.
- e) **Germ cell mutagenicity:** Not classified as mutagenic on the basis of mixture component information.
- f) **Carcinogenicity:** Not classified as carcinogenic on the basis of mixture component information.
- g) **Reproductive toxicity:** Not classified as a reproductive toxicant on the basis of mixture component information.
- h) **STOT- single exposure:** Not classified as hazardous for single dose toxicity on the basis of mixture component information.
- i) **STOT- repeated exposure:** Not classified as hazardous for repeated dose toxicity on the basis of mixture component information.
- j) **Aspiration hazard:** Not classified as hazardous by aspiration on the basis of mixture component information.

### Likely routes of exposure and related long and short term symptoms and health effects:

**Inhalation:** There is a low risk of exposure by inhalation.

Short-term symptoms and effects: Possible slight nasal irritation and discharge.

Long-term symptoms and effects: No evidence of long-term effects after prolonged or repeated exposure.

**Eye contact:** There is a risk of exposure by eye contact.

Short-term symptoms and effects: Possible serious irritation and redness.

Long-term symptoms and effects: May cause serious and potentially irreversible eye damage after prolonged or repeated exposure.

**Skin contact:** There is a risk of exposure by eye contact.


Short-term symptoms and effects: Possible irritation and redness.

Long-term symptoms and effects: May cause and allergic skin reaction following repeated exposure.

**Ingestion:** There is a very low risk of accidental exposure by ingestion.

Short-term symptoms and effects: Possible mild gastrointestinal effects.

Long-term symptoms and effects: No evidence of long-term effects after prolonged or repeated exposure.

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## XII.- ECOLOGICAL INFORMATION

All the data contained in this section are derived from actual test data on the mixture unless otherwise stated.

### 12.1 Toxicity:

#### Acute toxicity:

**Toxicity to Fish:** *Oncorhynchus mykiss*: LC<sub>50</sub>, 96h = 92.9 mg/ l.

**Toxicity to aquatic invertebrates:** *Daphnia magna* EC<sub>50</sub> 48 h = 57.9 mg/ l

#### Toxicity Algae and other Aquatic Plants:

*Pseudokirchneriella subcapitata* 72h EyC<sub>50</sub> = 29.5 mg/l

*Pseudokirchneriella subcapitata* 72h ErC<sub>50</sub> = 101 mg/l

**Toxicity to birds:** *Bobwhite quail* >2000 mg/kg bw (based on data on the active substance).

**Toxicity to bees:** *Apis mellifera* 48h LD<sub>50</sub> by contact > 72.7 µg a.s/ / bee LD<sub>50</sub> oral >163.3 µg a.s/ bee.

**12.2 Persistence and degradability:** Moderately to non-persistent, not readily biodegradable (based on data on the active substance).

**12.3 Bioaccumulative potential:** Low (based on data on the active substance).

**12.4 Mobility in soil:** Moderately mobile to mobile (based on data on the active substance).

**12.5 Results of PBT and vPvB assessment:** No PBT or vPvB assessments have been carried out on the mixture; please refer to 12.1, 12.2 & 12.3 . This preparation contains no substance considered to be very persistent or bioaccumulative (vPvB).

**12.6 Other adverse effects:** Not determined.

## XIII.- DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Disposal of waste product, contaminated packaging material and any excess diluted spray should be in accordance with 'The Hazardous Waste (England and Wales), Regulation 2005' and any other applicable local or national legislation (for guidance refer to the MAFF/HSE "Pesticides: Code of Practice for the Sale Use of Pesticides on Farms and Holdings").

For the handling and management of accidental release, follow the information given under Section 6 and 7.

## XIV.- TRANSPORT INFORMATION

### Road Transport (ADR/RID) - Maritime (IMDG)

**14.1 UN number:** UN3082.

### 14.2 UN proper shipping name:


**ADR/RID:** "Environmentally hazardous substance, liquid, n.o.s. (Contains mesotrione).

**14.3 Transport hazard class(es):** 9.

**14.4 Packing group:** III

**14.5 Environmental hazards:** Land transport ADR/RID- Environmentally hazardous: Yes.  
Maritime transport IMDG- Marine pollutant: Yes.



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Note: When transported in packages of 5 litres and less (UN3082) these goods are exempt from the main requirements of the transport regulations by virtue of Special Provision 375 of the ADR regulations 2015 for transport by road, Section 2.10.2.7 of the IMDG code 37-14 for transport by sea, and Special Provision A197 of the IATA 56<sup>th</sup> Edition regulations for transport by air.

**14.6 Special precautions for User:** Land transport ADR/RID- Tunnel restriction code: E.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** IBC code: IBC03.

## XV.- REGULATORY INFORMATION

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

#### EU regulations.

REGULATION (EC) No. 1107/2009 of The European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

REGULATION (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 57/548/EEC and 1999/45/EC, and amending Regulation (EC)1907/2006.

REGULATION (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/105/EC and 2000/21/EC, including amendments.

COMMISSION REGULATION (EC) No. 2015/830, of 28 May 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### National Regulations/legislation:

The Chemicals (Hazard Information & Packaging for Supply) Regulations 2009 (CHIP 4)  
Health and Safety at Work etc. Act 1974, as amended, the Control of Substances Hazardous to Health Regulations 1999 (COSHH), as amended.


**15.2 Chemical safety assessment:** No chemical safety assessment under Regulation (EC) 1907/2006 is required and has not been carried out.

## XVI.- OTHER INFORMATION

**Reason for the revision:** Initial.

#### Abbreviations and acronyms:

CL<sub>50</sub>: Average Lethal Concentration  
DL<sub>50</sub>: Average Lethal Dose  
ADI: Acceptable Daily Intake  
AOEL: Operator acceptable exposure level.  
b.w.: body weight  
DT<sub>50</sub>: Half degradation Time  
CE<sub>50</sub>: Effective average Concentration  
LOAEL: Lower observed adverse effect level.  
NOAEL: No observed adverse effect level.  
NOEL: No observed effect level  
ARfD: Acute Reference Dose  
NOEC: No observed effect concentration.

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K<sub>oc</sub>: Adsorption Coefficient of organic carbon

ADR: European Agreement concerning International Road Transport of Dangerous Goods

RID: European Agreement concerning International Railroad Transport of Dangerous Goods

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

Data Bases Consulted:

ESIS: European System Information of Chemical Substances;

FOOTPRINT (2007/2008)

AGRITOX - Data Base on active substances.

**Book References:**

“The Pesticide Manual”, version 3.2 2005-06, 13<sup>a</sup> Edition, Editor: CDS Tomlin; Manual Toxicológico de Productos Fitosanitarios para Uso Sanitario – Instituto Nacional de Toxicología / AEPLA (Asociación Empresarial para la Protección de las Plantas (España).

**Full text of hazard statements mentioned in section III:**

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage

H315: Causes skin irritation.

H319: Causes serious eye irritation.

**Recommendations concerning usage:** This information and recommendations in this publication are the best of our knowledge, information and belief, accurate at the date of publication. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.

This material Safety Data Sheet was compiled by Industrias Afrasa in compliance with Regulation 1907/2006/CE, as amended by 2015/830.