

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 6/17/2019 Version: 1.0

	nce/mixture and of the company/undertaking	
1.1. Product identifier Product form	: Mixture	
Trade name	: SOLDEFEND	
Product code	: AFE00044	
Type of product	: Biostimulant.	
1.2. Relevant identified uses of the substance	ce or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Professional use	
Use of the substance/mixture	: Sunscreen for foliar spray	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety data	sheet	
AZUFRERA Y FERTILIZANTES PALLARES, S.A.		
Av. Europa Parcela 1 – 7 (Pol.Ind. Constanti) 43120 Constantí (Tarragona) - España		
T + 34 977 524 650 - F + 34 977 524 651		
afepasa@afepasa.com - www.afepasa.com		
1.4. Emergency telephone number		
	-34 977 524 650	
0	Office hours, Monday to Friday (08:00-17:00)	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixtu	re	
Classification according to Regulation (EC) No. 1	272/2008 [CLP]	
Aquatic Chronic 2	H411	
Full text of hazard classes and H-statements : see section 16		
Adverse physicochemical, human health and env	ironmental effects	
No additional information available		
2.2. Label elements		
Labelling according to Population (EC) No. 1272/		
Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP)		
	74	
	GHS09	
Signal word (CLP)	:-	
Hazard statements (CLP)	: H411 - Toxic to aquatic life with long lasting effects.	
Precautionary statements (CLP)	: P273 - Avoid release to the environment.	
- , ,	P391 - Collect spillage.	
	P501 - Dispose of contents and container to an authorised waste collection point.	
2.3. Other hazards		
No additional information available		

3.1. Substances Not applicable 3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5 (EC Index-No.) 030-013-00-7 (REACH-no) 01-2119463881-32	3 - 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

boric acid substance listed as REACH Candidate	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2 (REACH-no) 01-2119486683-25	2 - 3	Repr. 1B, H360FD
Specific concentration limits:			
Name	Product identifier	Specific con	centration limits
boric acid	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2 (REACH-no) 01-2119486683-25	(5.5 = <c 100<="" <="" td=""><td>0) Repr. 1B, H360FD</td></c>	0) Repr. 1B, H360FD

Full text of H-statements: see section 16

4.1. Description of first aid measures         First-aid measures general <ul> <li>New regive anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the liabel where possible).</li> </ul> First-aid measures after inhibition <ul> <li>Assure fresh aib reasting. Allow the victim to rest.</li> </ul> First-aid measures after skin contact <ul> <li>Romove affected obthing and vash all exposed skin area with mild scap and water, followed by warm water irrice.</li> </ul> First-aid measures after skin contact <ul> <li>Rimse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.</li> <li>First-aid measures after ingestion</li> <li>Rimse immediately with plenty of water. Obtain mergency medical attention.</li> <b>4.2. Most important symptoms and effects.</b> both acute and delayed         Symptoms/effects        <ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li><b>4.3. Indication of any immediate medical attention and special treatment needed</b></li> </ul>        No additional information available         <b>5.1. Extinglishing media</b> <ul> <li>Form. Dry powder. Carbon dioxide. Water spray. Sand.</li> <li>Unsubable extinglishing media</li> <li>Do not use a heavy water stream.</li> </ul> <b>5.1. Extinglishing media</b> <ul> <li>Do not enter fire area without proper protective equipment.</li> <li>Premetial f</li></ul></ul>	SECTION 4: First aid measures	
advice (show the isbel where possible).         First-admeasures after isha isonation.         First-admeasures after skin contact.         Remove affectad clothing and wash all exposed skin area with mild scap and water, tolowed by warm water rinse.         First-aid measures after eye contact.       Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.         First-aid measures after ingestion       : Rinse immediately with plenty of water. Obtain medical attention.         4.2. Most important symptoms and effects, both acute and delayed         Symptoms/effects       : Not special treatment needed         No additional information available       : Not special treatment needed         SECTION 5: Firefighting media       : Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Unsuitable extinguishing media       : Do not use a heavy water stream.         5.1. Extinguishing media       : Do not use a heavy water stream.         5.2. Special hazards arising from the substance or mixture       No additional information available         Sa. Advice of riferighting       : Do not enter fire area without proper protective equipment.         Firefighting instructions       : De not enter fire area without proper protective equipment, including respiratory protection.         Energency procedures       : Evaluate unnecessary personnel.         6.1. For mengency responders       : Evaluate unnecessary personnel.	4.1. Description of first aid measures	
First-aid measures after skin contact <ul> <li>Remove affected olohing and wash all exposed skin area with mild scap and water, followed by warm water innes.</li> </ul> First-aid measures after eye contact <ul> <li>Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.</li> <li>First-aid measures after ingestion</li> <li>Is the sem mult. Do NOT induce vomiting. Obtain emergency medical attention.</li> </ul> 4.1. Most important symptoms and effects, both acute and delayed           Symptoms/effects <ul> <li>Net seem contact and special treatment needed</li> <li>Not additional information available</li> </ul> SECTION 5: Firefighting media <ul> <li>Foam. Dry powder. Carbon dioxide. Water spray. Sand.</li> <li>Unsuitable exitinguishing media</li> <li>Do not use a heavy water stream.</li> </ul> 51.3. Advice for firefighters <ul> <li>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent the fighting water from entering the ervironment.</li> </ul> Stational information available <ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Chemical fire. Prevent the fighting water from entering the ervironment.</li> </ul> Protection during firefighting. <ul> <li>Do not enter fi</li></ul>	First-aid measures general	
First-aid measures after eye contact       First-aid measures after eye contact       First-aid measures after ingestion       First-aid measures after ingestion         First-aid measures after ingestion       First-aid measures after ingestion       First-aid measures after ingestion         First-aid measures after ingestion       First-aid measures after ingestion       First-aid measures after ingestion         Station of any immediate medical attention and special treatment needed         No additional information available         Station of any immediate medical attention and special treatment needed         No additional information available         Statiale extinguishing media       Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Unsuitable extinguishing media       Do not use a heavy water stream.         52. Special hazards arising from the substance or mixture       No additional information available         Station extinguishing media       Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Fireidphing instructions       Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Station extinguishing media       Exercise available         5.1. Foronal precautions, protective equipment and emergency procedures       6.1.1. For on-emergency personnel	First-aid measures after inhalation	5
First-aid measures after ingestion       : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.         4.2. Most important symptoms and effects, both acute and delayed         Symptoms/effects       : Not expected to present a significant hazard under anticipated conditions of normal use.         4.3. Indication of any immediate medical attention and special treatment needed         No additional information available         SECTION 5: Firefighting meals       : Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Unsuitable extinguishing media       : Do not use a heavy water stream.         52: Special hazards arising from the substance or mixture       No additional information available         Stational information available       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       61.1. For one-mergency personnel         61.1. For one-mergency personnel       : Evacuate unnecessary personnel.         61.2. Environmental precautions, protective equipment and emergency procedures       : Collect spillage. Store away from other materials.         62.1. Personal precautions, protective equipment and emergency protection.       : Evacuate unnecessary personnel.         61.1. For one-mergency pr	First-aid measures after skin contact	
4.2. Most important symptoms and effects, both acute and delayed         Symptoms/effects       : Not expected to present a significant hazard under anticipated conditions of normal use.         4.3. Indication of any immediate medical attention and special treatment needed         No additional information available         SECTION 5: Firefighting measures         5.1. Extinguishing media       : Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Unsuitable extinguishing media       : Do not use a heavy water stream.         5.2. Special hazards arising from the substance or mixture       No additional information available         5.3. Advice for firefighters       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. For non-mergency presonnel         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders       : Ventilate area.         6.2. Environmental precautions       : Ventilate area.         6.3. Methods for cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections <t< td=""><td>First-aid measures after eye contact</td><td></td></t<>	First-aid measures after eye contact	
Symptoms/effects       : Note expected to present a significant hazard under anticipated conditions of normal use.         4.3. Indication of any immediate medical attention and special treatment needed       No additional information available         SECTION 5: Firefighting media       : Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Suitable extinguishing media       : Do not use a heavy water stream.         5.2. Special hazards arising from the substance or mixture       No additional information available         5.3. Advice for firefighters       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Pretection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1.1. For non-emergency personnel         Emergency procedures       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.3. Methods and material for containment and cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       : Soak up spills with inert solids	First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.3. Indication of any immediate medical attention and special treatment needed         No additional information available         SECTION 52 Firefighting media         5.1. Extinguishing media         2.2. Special hazards arising from the substance or mixture         No additional information available         5.3. Advice for firefighters         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not use a theray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment.         Section St. Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       Evacuate unnecessary personnel.         Emergency procedures       : Evaluate area.         6.2. Environmental precautions       Inquisities if liquid cleanup crew with proper protection.         Emergency procedures       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.3. Methods and material for containment and cleaning up       : Soak up spills with inert solids, such as clay or diatoma	4.2. Most important symptoms and effects, b	
No additional information available         SECTION 5: Firefighting media         Suitable extinguishing media         Suitable extinguishing media         Suitable extinguishing media         Suitable extinguishing media         S. Special hazards arising from the substance or mixture         No additional information available         5.3. Advice for firefighting         S.3. Advice for firefighting         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       Equip cleanup crew with proper protection.         Emergency procedures       : Vantilate area.         6.2. Environmental precautions       Prevent entry to severs and public waters. Notify authorities if liquid enters severs or public waters. Avoid release to the environment.         Prevent entry to severs and public waters. Notify authorities if liquid enters severs or public waters. Avoid release to the environment.         6.1.2. For emergency procedures       : Collect spillage. Store away from other materials.         6.2. Environmental precau		
SECTION 5: Firefighting media         Suitable extinguishing media       : Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Unsuitable extinguishing media       : Do not use a heavy water stream.         52. Special hazards arising from the substance or mixture         No additional information available         53. Advice for fifefighters         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighters       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighters       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighters       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighters       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Sectrolon 4: Accidental release measures       6.1.1. For non-emergency personnel         6.1.1. For non-emergency personnel       : Equip cleanup crew with proper protection.		ention and special treatment needed
5.1. Extinguishing media       : Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Junsuitable extinguishing media       :: Do not use a heavy water stream.         5.2. Special hazards arising from the substance or mixture         No additional information available         5.3. Advice for firefighters         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       :: Do not use a heavy water stream.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       :         Emergency procedures       :: Ventilate area.         6.2. Environmental precautions       : Ventilate area.         6.3. Advice for containment and cleaning up       :: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       : Soak up spills	No additional information available	
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Suitable extinguishing media       : Foam. Dry powder. Carbon dioxide. Water spray. Sand.         Unsuitable extinguishing media       : Do not use a heavy water stream.         5.2. Special hazards arising from the substance or mixture       No additional information available         5.3. Advice for firefighters       Firefighting instructions         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       Emergency procedures         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders       Protective equipment         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.3. Methods and material for containment and cleaning up       Methods for cleaning up         Methods for cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other secctions       See Heading 8. Exposure control		
Unsuitable extinguishing media       : Do not use a heavy water stream.         5.2. Special hazards arising from the substance or mixture         No additional information available         5.3. Advice for firefighters         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. For non-emergency personnel         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions       : Ventilate area.         6.3. Methods and material for containment and cleaning up       Methods for cleaning up         Methods for cleaning up       : Scak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       :         See Heading 8. Exposure controls/personal protection.         SECTION 7: Handling and storage       : Wash hands and other exposed areas with mild scap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in proces		- Foam Dry powder, Carbon dioxide, Water spray, Sand
5.2. Special hazards arising from the substance or mixture         No additional information available         5.3. Advice for firefighters         Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1. For non-emergency personnel       Emergency procedures         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders       Protective equipment         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.3. Methods and material for containment and cleaning up         Methods for cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       Sec Heading 8. Exposure controls/personal protection.         Sec TION 7: Handling and storage       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.		
No additional information available 5.3. Advice for firefighters Firefighting instructions Firefighting Firef		·
Firefighting instructions       : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       Emergency responders         Protective equipment       : Evacuate unnecessary personnel.         6.2. For emergency responders       Protective equipment         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions       Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.         6.3. Methods and material for containment and cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       Sectrolon / Personal protection.         Sectrolons for safe handling       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.         7.2. Conditions for safe storage, including any torquical portical cont		
chemical fire. Prevent fire fighting water from entering the environment.         Protection during firefighting       : Do not enter fire area without proper protective equipment, including respiratory protection.         SECTION 6: Accidental release measures       6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel       Emergency procedures         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders       Protective equipment         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions       Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.         6.3. Methods and material for containment and cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       Sectron sections         See Heading 8. Exposure controls/personal protection.       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.         7.2. Conditions for safe storage, including any incompatibilities       : Weap hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leavin	5.3. Advice for firefighters	
SECTION 6: Accidental release measures         6.1. Personal precautions, protective equipment and emergency procedures         6.1. For non-emergency personnel         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions         Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.         6.3. Methods and material for containment and cleaning up         Methods for cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections         See Heading 8. Exposure controls/personal protection.         SECTION 7: Handling and storage         7.1. Precautions for safe handling         Precautions for safe handling         : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Keep only in the original container in a cool, well ventilated place away from: Keep	Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
6.1. Personal precautions, protective equipment and emergency procedures         6.1.1. For non-emergency personnel         Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions         Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.         6.3. Methods and material for containment and cleaning up         Methods for cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections         See Heading 8. Exposure controls/personal protection.         Sterge transformations for safe handling         Precautions for safe handling         Precautions for safe handling         : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.         7.2. Conditions for safe storage, including any incompatibilities         Storage conditions       : Keep only in the original container in a cool, well ventilated place away from: Keep	Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Emergency procedures       : Evacuate unnecessary personnel.         6.1.2. For emergency responders       Protective equipment         Protective equipment       : Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions       Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.         6.3. Methods and material for containment and cleaning up       Methods for cleaning up         Methods for cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       See Heading 8. Exposure controls/personal protection.         SECTION 7: Handling and storage       .         7.1. Precautions for safe handling       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.         7.2. Conditions for safe storage, including any incompatibilities       Storage conditions         Storage conditions       : Keep only in the original container in a cool, well ventilated place away from: Keep		
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Protective equipment       Equip cleanup crew with proper protection.         Emergency procedures       : Ventilate area.         6.2. Environmental precautions       Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.         6.3. Methods and material for containment and cleaning up       Methods for cleaning up         Methods for cleaning up       : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.         6.4. Reference to other sections       See Heading 8. Exposure controls/personal protection.         SECTION 7: Handling and storage       7.1. Precautions for safe handling         Precautions for safe handling       : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.         7.2. Conditions for safe storage, including any incompatibilities       Storage conditions         Storage conditions       : Keep only in the original container in a cool, well ventilated place away from: Keep	Emergency procedures	: Evacuate unnecessary personnel.
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Incompatible products

Incompatible materials

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection 8.1. Control parameters	
zinc oxide (1314-13-2)	
EU - Occupational Exposure Limits	
Local name	Zinc oxide
Notes	(Ongoing)
Regulatory reference	SCOEL Recommendations
8.2. Exposure controls	
Personal protective equipment:	

: Strong bases. Strong acids.

: Sources of ignition. Direct sunlight.

### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:
Wear protective gloves.
Eye protection:
Chemical goggles or safety glasses
Respiratory protection:
Wear appropriate mask

#### Personal protective equipment symbol(s):



### Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: White.	
Odour	: Characteristic.	
Odour threshold	: No data available	
рН	: 6.5 - 7.5	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour Pressure 20°C	: No data available	
Vapour density	: No data available	
Relative density	: 1.2 - 1.3	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	

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Explosive limits

### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Not established.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperatures.	
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
Fumes. Carbon monoxide. Carbon dioxide.	

: No data available

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
boric acid (10043-35-3)	
LD50 oral rat	2660 mg/kg bodyweight

#### LD50 oral rat

zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5700 g/m³
Skin corrosion/irritation	: Not classified
	pH: 6.5 - 7.5
Additional information	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Not classified
	pH: 6.5 - 7.5
Additional information	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

12.1. Toxicity Ecology - water Acute aquatic toxicity

- : Toxic to aquatic life with long lasting effects.
- : Not classified

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Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.
boric acid (10043-35-3)	
LC50 fishes	74 mg/l (96 h)
EC50 Daphnia	133 mg/l (48 h - Daphnia magna)
ErC50 (algae)	24 mg/l (96 h - Scenedesmus subspicatus)
NOEC chronic crustacea	6 mg/l (21 days)
12.2. Persistence and degradability	
SOLDEFEND	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
SOLDEFEND	
Bioaccumulative potential	Not established.
boric acid (10043-35-3)	
Log Pow	-0.76
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
Component	
boric acid (10043-35-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Additional information	: Avoid release to the environment.
SECTION 13: Disposal considerations	
12.4. Weste treatment methods	

13.1. Waste treatment methods	
Product/Packaging disposal recommendations	<ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>
Ecology - waste materials	: Avoid release to the environment.

# SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number		••		
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), 9, III, (- )	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (zinc oxide), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9

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according to Regulation (EC) No.	1307/2000 (REACH)			
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : Yes	environment : Yes Marine pollutant : Yes	environment : Yes	environment : Yes	environment : Yes
No supplementary information	n available			
14.6. Special precaution	s for user			
Overland transport				
Classification code (ADR)		: M6		
Special provisions (ADR)		: 274, 335, 375, 601		
Limited quantities (ADR)		: 5l		
Excepted quantities (ADR)		: E1		
Packing instructions (ADR)		: P001, IBC03, LP01, R001		
Special packing provisions (A	NDR)	: PP1		
Mixed packing provisions (AD	DR)	: MP19		
Portable tank and bulk contai (ADR)	ner instructions	: T4		
Portable tank and bulk contai (ADR)		: TP1, TP29		
Tank code (ADR)		: LGBV		
Vehicle for tank carriage		: AT		
Transport category (ADR)		: 3		
Special provisions for carriag	e - Packages (ADR)	: V12		
Special provisions for carriag unloading and handling (ADR		: CV13		
Hazard identification number	(Kemler No.)	: 90		
Orange plates		90 3082		
Tunnel restriction code (ADR	)	:-		
EAC code		: •3Z		
Transport by sea				
Special provisions (IMDG)		: 274, 335, 969		
Limited quantities (IMDG)		: 5 L		
Excepted quantities (IMDG)		: E1		
Packing instructions (IMDG)		: LP01, P001		
Special packing provisions (II		: PP1		
IBC packing instructions (IME	,	: IBC03		
Tank instructions (IMDG)		: T4		
Tank special provisions (IMD		: TP2, TP29		
EmS-No. (Fire)		: F-A		
EmS-No. (Spillage)		: S-F		
Stowage category (IMDG)		: A		
Air transport				
•	ГА)	: E1		
PCA Excepted quantities (IAT		: E1 : Y964		
PCA Excepted quantities (IAT PCA Limited quantities (IATA	)	: Y964		
PCA Excepted quantities (IA PCA Limited quantities (IATA PCA limited quantity max net	) quantity (IATA)	: Y964 : 30kgG		
PCA Excepted quantities (IAT PCA Limited quantities (IATA PCA limited quantity max net PCA packing instructions (IA	) quantity (IATA) TA)	: Y964 : 30kgG : 964		
PCA Excepted quantities (IA PCA Limited quantities (IATA PCA limited quantity max net	) quantity (IATA) TA)	: Y964 : 30kgG		

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according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1907/2006 (REACH)	
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L
Inland waterway transport	
Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	:T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90
14.7. Transport in bulk according to Annex Not applicable	I of Marpol and the IBC Code

### SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration  $\geq$  0.1% or with a lower specific limit: boric acid (EC 233-139-2, CAS 10043-35-3)

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

boric acid zinc oxide

SECTION 16: Other information			
	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 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.		
Other information :	None.		
Full text of H- and EUH-statements:			
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		

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Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Repr. 1B	Reproductive toxicity, Category 1B		
H360FD	May damage fertility. May damage the unborn child.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Aquatic Chronic 2	H411	Calculation method	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product