

**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**Product name:** ACE 3  
**Product code:** 3213  
**Synonyms:** PERACETIC ACID & HYDROGEN PEROXIDE MIXTURE, STABILISED  
**Company name:** Amega Sciences PLC  
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**2. HAZARDS IDENTIFICATION**

**Classification under CHIP:** Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to respiratory system.  
**Workplace exposure limit:** This substance does not have a workplace exposure limit.  
**PBT:** This substance is not identified as a PBT substance.  
**Directive 1999/45/EC:** This mixture meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous ingredients:** PERACETIC ACID 5.000%  
EINECS: 201-186-8 CAS: 79-21-0  
[O] R7; [-] R10; [Xn] R20/21/22; [C] R35; [N] R50  
• HYDROGEN PEROXIDE SOLUTION 24.000%  
EINECS: 231-765-0 CAS: 7722-84-1  
[-] R5; [O] R8; [Xn] R20/22; [C] R35

**4. FIRST AID MEASURES**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.  
**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.  
**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.  
**Exposure hazards:** In combustion emits toxic fumes.  
**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.  
**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.  
**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**7. HANDLING AND STORAGE**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hazardous ingredients:** HYDROGEN PEROXIDE SOLUTION...100%

UK - 8 hour TWA: 1.4 mg/m<sup>3</sup>

UK - 15 min. STEL: 2.8 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Colourless

**Odour:** Pungent

**Evaporation rate:** Slow

**Oxidising:** Oxidising (by EC criteria)

**Solubility in water:** Miscible in all proportions

**Relative density:** 1.100 - 1.120

**pH:** 0-1

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

**Toxicity value(s):** IVN MUS LD50 17860 µg/kg

ORL MUS LD50 210 mg/kg

ORL RAT LD50 1540 µl/kg

**Acute effects:** Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to respiratory system.

**11. TOXICOLOGICAL INFORMATION (SYMPTOMS)**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Other adverse effects:** Negligible ecotoxicity.

**PBT identification:** This substance is not identified as a PBT substance.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

## ADR / RID

UN no: 3149  
 Packing group: II  
 Shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
 Labelling: 5.1+8

ADR Class: 5.1  
 Classification code: OC1  
 Hazard ID no: 58



## IMDG / IMO

UN no: 3149  
 Packing group: II  
 Marine pollutant: NO

Class: 5.1  
 EmS: F-H,S-Q  
 Labelling: 5.1+8

## IATA / ICAO

UN no: 3149  
 Packing group: II  
 Packing instructions: 501(P&CA); 506(CAO)  
 Labelling: 5.1+8

Class: 5.1  
 Subsidiary risk: 8

## 15. REGULATORY INFORMATION (CHIP)

Hazard symbols: Corrosive.



Risk phrases: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
 R34: Causes burns.  
 R37: Irritating to respiratory system.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Haz. ingredients (label): PERACETIC ACID...100%; HYDROGEN PEROXIDE SOLUTION...100%

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

Risk phrases used in s.3: R7: May cause fire.  
 R10: Flammable.  
 R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
 R35: Causes severe burns.  
 R50: Very toxic to aquatic organisms.  
 R5: Heating may cause an explosion.  
 R8: Contact with combustible material may cause fire.  
 R20/22: Harmful by inhalation and if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.