SAFETY DATA SHEET

According to Directive 200 1/58/EC

PARAHEEL

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the substance/preparation

Product name	:	PARAHEEL
Synonyms	:	Peracetic acid, Peroxyethanoic acid, PAA, Peroxyacetic acid
Molecular formula	:	CH3-COOOH
Molecular Weight	:	76.05 g/mol

1.2. Company/Undertaking Identification

AGROSERVE Ltd

Address	:	Wylye Works, Watery Lane
Telephone	:	Bishopstrow, Warminster
Telefax	:	Wiltshire BA12 9HT
		01985 21644
		01985216692

1.3. Emergency and contact telephone numbers

24 Hour Emergency Information:	**:**	**Tel No. +44 (0) 207 358 9167**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Peracetic acid

CAS-No.	:	79-21-0
Annex-1	:	607-094-00-8
EINECS-No.	:	201-186-8
Symbol(s) R-phrase(s)	: :	N, O, C R 7, R10, R20/21/22, R35, R50
Concentration	**:**	**ca. 6.00 %**

Hydrogen peroxide

CAS-No.	:	7722-84-1
Annex-1	:	008-003-00-9
EINECS-No.	:	231-765-0
Symbol(s) R-phrase(s)	: :	C, O R 5, R 8, R20/22, R35
Concentration	**:**	**ca. 22.00 %**

Acetic acid

CAS-No.	:	64-1 9-7
Annex-1	:	607-002-00-6
EINECS-No.		200-580-7
Symbol(s) R-phrase(s)		C R10, R35
Concentration		**ca. 10.00 %**

Ethoxylate alcohol

CAS-No.	68603-25-8
Symbol(s)	Xi, N
R-phrase(s)	R41, R51/53
Concentration	**ca. 1.00 %**

3. HAZARDS IDENTIFICATION

Appearance : liquid
Colour/odour : colourless/ pungent

– The preparation is classified as dangerous in accordance with Directive 1 999/45/EC.
– Oxidising
– Contact with combustible material may cause fire.
– Harmful by inhalation, in contact with skin and if swallowed.
– Causes burns.

4. FIRST AID MEASURES

4.1. Inhalation

– In case of accident by inhalation: remove casualty to fresh air and keep at rest.
– Victim to lie down in the recovery position, cover and keep warm.
– Oxygen or artificial respiration if needed.
– Call a physician immediately.

4.2. Eye contact

– Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
– Consult with an ophthalmologist immediately in all cases.
– Take victim immediately to hospital.

4.3. Skin contact

– Take off contaminated clothing/shoes immediately - Wash contaminated clothing before re-use.
– Wash off immediately with plenty of water.
– Keep warm and in a quiet place.
– Call a physician immediately.

4.4. Ingestion

– Call a physician immediately and take to hospital.

If victim is conscious:

– If swallowed, rinse mouth with water (only if the person is conscious).
– Do NOT induce vomiting.

If victim is unconscious but breathing:

– Artificial respiration and/or oxygen may be necessary.
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5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

– Water or Water spray

5.2. Special exposure hazards in a fire

– Oxidising
– Oxygen released in thermal decomposition may support combustion
– Contact with combustible material may cause fire.
– Contact with flammables may cause fire or explosions.
– Risk of explosion if heated under confinement.

5.4. Special protective equipment for fire-fighters

– In the event of fire, wear self-contained breathing apparatus.
– When intervention in close proximity wear acid resistant over suit.
– Clean contaminated surface thoroughly.

5.5. Other information

– Keep product and empty container away from heat and sources of ignition.
– Keep containers and surroundings cool with water spray.
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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

– Approach from upwind.
– Refer to protective measures listed in sections 7 and 8.
– Isolate the area.

– Keep away from Incompatible products.
– Prevent further leakage or spillage if safe to do so.
– In case of contact with combustible material, keep material wet with plenty of water.

6.2. Environmental precautions

– The product should not be allowed to enter drains, water courses or the soil.
– If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods for cleaning up

– Soak up with inert absorbent material.
– Dilute with plenty of water.
– Treat recovered material as described in the section "Disposal considerations".
– Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

7.1. Handling

– Use only in well-ventilated areas.
– Keep away from heat and keep away from Incompatible products.
– Use only equipment and materials which are compatible with the product.
– Never return unused material to storage receptacle.

7.2. Storage

– Keep in a cool, well-ventilated place and keep away from heat.
– Keep away from Incompatible products and away from combustible material.
– Store in original container and keep container closed.
– Regularly check the condition and temperature of the containers.

7.3. Specific use(s)

– For further information, please contact: Supplier shown in section 1.2 and as shown on label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure Limit Values

Peracetic acid

None established

Hydrogen peroxide

WEL (UK) 2007 STEL = 2 ppm STEL = 2.8 mg/m3

Acetic acid

None established

8.2. Exposure controls

– Ensure adequate ventilation.

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection If necessary use only respiratory protection that conforms to national standards.

8.2.1.2. Hand protection Wear suitable gloves- butyl rubber is suitable.

8.2.1.3. Eye protection Chemical resistant goggles should be worn to prevent splashes into eyes.

8.2.1.4. Skin and body protection Apron/boots of butyl rubber if risk of splashing.

8.2.1.5. Hygiene measures Eye wash bottle with pure water should be available; when using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information (appearance, odour): colourless liquid with pungent odour.

9.2. Important health safety and environmental information

pH : < 1

Oxidizing properties : *Remarks:* Oxidizer

Relative density / Density : 1.1

Solubility : Completely miscible in water

9.3. Other data

Freezing point: : ca. -30 °C

Decomposition Temperature: >= 60 °C Self-Accelerating decomposition temperature (SADT)

10. STABILITY AND REACTIVITY

10.1. Stability

– Stable under recommended storage conditions.

10.2. Conditions to avoid

– Do not contaminate contents of drum or mix with other chemicals

10.3. Materials to avoid

– Acids, Bases, Metals, Salts of metals, Reducing agents, Organic materials, Flammable materials

10.4. Hazardous decomposition products

– Oxygen

– The release of other hazardous decomposition products is possible.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological data

Acute oral toxicity LD50, 330 mg/kg (7 % solution)

Possible hazards (summary) corrosive effects

11.2. Health effects

Main effects The product causes burns of eyes, skin and mucous membranes.

Inhalation Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.

Eye contact

– Severe eye irritation

– Risk of serious damage to eyes. May cause permanent eye injury.

Skin contact

– Severe skin irritation

– Causes burns.

Ingestion

– If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

– Risk of shock.

– Excessive fluid in the mouth and nose, with risk of suffocation.

– Nausea

– Breathing difficulties

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity effects

Acute toxicity

– Fishes, Salmo gairdneri, NOEC, pigmentation, < 10 mg/l

Chronic toxicity

– Fishes, various species, LC50 Remarks: no data available

12.2. Persistence and degradability

Abiotic degradation

Result: Chemical degradation

– Soil, 99 %, < 0.5 h (1 % solution)
Result: Chemical degradation

Biodegradation

– Readily biodegradable.

– Effects on waste water treatment plants, 90 mg/l
Remarks: inhibitory action

– Effects on waste water treatment plants
Remarks: BOD increase of treated effluent by acetic acid formation

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Possible hazards (summary)

– Hazard for the environment is limited due to product properties:
Considerable abiotic and biotic degradability, weak persistence of degradation products.
Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

13.1. Waste from residues / unused products

Small quantities:

– Dilute with plenty of water.
– Flush into sewer with plenty of water.

13.2. Packaging treatment

– Empty containers.
– Clean container with water.
– Dispose of rinse water in accordance with local and national regulations.
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14. TRANSPORT INFORMATION

UN-No. 3109

IMDG Class 5.2 IMDG-Labels Organic Peroxides
HI/UN No. 3109
EmS: F-J, S-R
Proper shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

ADR Class 5.2 ADR/RID-Labels 5.2 Packing Group II
HI/UN No. 539/3109
Proper shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

15. REGULATORY INFORMATION

15.1. EC Label

– Hazardous components which must be listed on the label: Peracetic acid / Hydrogen peroxide / Acetic acid / Ethoxylate alcohol
– The product is classified and labelled in accordance with Directive 1999/45/EC.

Symbol(s) **O** Oxidising **C** Corrosive

R-phrase(s) R 8 Contact with combustible material may cause fire.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.

S-phrase(s) S 1/2 Keep locked up and out of the reach of children.
S 3/7 Keep container tightly closed in a cool place.
S14 Keep away from Combustible material ;Acids; Reducing agents;Salts of metals.
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).
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

15.2. Other regulations

– Legislation on the control of major-accident hazards involving dangerous substances, Directive 96/82/EC applies
– European Waste Catalogue, Decision (2000/532/EC), Hazardous waste, Waste codes should be assigned by the user based on the application for which the product was used., The following Waste Codes are only suggestions: 16 09 03 (peroxides)
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16. OTHER INFORMATION

16.1. Administrative information

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product which conforms to the specification, unless otherwise stated. In this case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment.

When diluted this product is safe to be disposed of in farm slurry or spread onto land. See section 12 – product is readily biodegradable.