

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION.

Trade Name: **PureChem Peracetic acid 5%**

Synonyms: Peroxyacetic acid
Peracetic acid

Manufacturer/Supplier: Central Chemical Supplies Limited
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2. HAZARD IDENTIFICATION.

Liquid and mist are corrosive (causing burns); direct contact could cause irreversible damage to eyes including blindness and/or irreversible destruction of skin tissue. Vapour/mist will irritate nose, throat and lungs but will usually subside when exposure ceases.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

<i>Chemical Name</i>	<i>EC No</i>	<i>CAS-No</i>	<i>% w/w</i>	<i>EC Class</i>
Peroxyacetic acid	201-186-8	79-21-0	5-6	C R20/21/22-35; Xi R 36/37/38; N R50; O R7, 10
Hydrogen peroxide	231-765-0	7722-84-1	21-23	Xn, R22-41
Acetic acid	200-580-7	64-19-7	10-11	R10-34-35-36/38; S1/2-23-26-45

4. FIRST AID MEASURES.

Eyes: Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

Skin:	Immediately flush with plenty of water while removing contaminated clothing and/or shoes, and thoroughly wash with soap and water. Obtain immediate medical attention. Contact a medical doctor if necessary.
Ingestion:	Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.
Inhalation:	Remove to fresh air. If breathing discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration and see a medical doctor immediately.
Notes to medical doctor:	This product can be corrosive to skin, eyes and mucous membranes. Consideration should be given to careful endoscopy as stomach or esophageal burns perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Observation may be warranted. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use water spray to keep fire exposed containers cool. Extinguish fire-using agents suitable for nearby fires.
Fire/explosion hazards	Oxygen that can initiate or promote combustion
Fire fighting procedures	Use flooding quantities of water only. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum distance. Chemical type extinguishers are not effective with peracetic acid or hydrogen peroxide, which are ingredients in this product. Use proper personal protective equipment and positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Release notes	Approach release from upwind. Stop or control leak using special protective clothing and positive pressure self-contained breathing apparatus. Control run off and isolate discharged material for proper disposal. Do not allow undiluted material to enter storm or sanitary sewer systems.
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Combustible materials exposed to hydrogen peroxide, an ingredient in this product, should be immediately submerged in, or rinsed with, large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

7. HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Always ensure good ventilation when using this product. Wear suitable gloves and eye/face protection. Do not mix with any other chemicals other than as advised by your PureChem representative. Avoid contamination of the product and never return unused product to the original container.

Store upright in original closed containers in a cool place out of direct sunlight, ensuring that the vents remain effective. Ensure that storage area is well ventilated. For further information refer to HSE Guidance Note CS21, "The Storage & Handling of Organic Peroxides"

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Chemical Name	Long Term	Short Term
Hydrogen peroxide	1.4mg/m ³	2.8mg/m ³
Acetic acid	25mg/m ³	37mg/m ³

Hand : Use gloves resistant to Peroxyacetic acid and Hydrogen Peroxide.

Eyes : When handling neat product wear eye/face protection to EN 166.

Skin : Wear normal workware overalls or coat.

Respiration : Personal protection is not normally required unless a risk assessment indicates the need for it. Use suitable self contained or airline breathing apparatus for high levels or prolonged contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odour	Sharp, pungent, vinegar like odour
Appearance	Colourless liquid
Specific gravity 20°C	1.10
Flash point	Approx 83°C (181°F)
pH	1.0 -2.0
Solubility in water	Miscible
Specific gravity	H ₂ O = 1):1.10 @

10. STABILITY AND REACTIVITY

To avoid thermal decomposition do not overheat. Keep away from combustibles, flammables, amines, heavy metal salts, cobalt and vanadium accelerators, reducing agents, acids, alkalis, polymerising substances and mild steel. Hazardous decomposition products may include oxygen (which supports combustion), heat, steam and noxious fumes.

11. TOXICOLOGICAL INFORMATION

Eyes : Corrosive - causes burns.

Skin : Corrosive - causes burns.

Inhalation : Harmful & Severe irritant - Inhalation of spray mists will cause irritation of the respiratory tract.

Ingestion : Harmful & Corrosive - Strong caustic effect on mouth and throat and danger of perforation to oesophagus and stomach

12. ECOLOGICAL INFORMATION

Ectotoxicological Information	96hr LC ₅₀ = 1.6mg/L (Rainbow trout)(FMC I95-2023) 96hr LC ₅₀ = 1.1mg/L(Bluegill sunfish)(FMC I95-2029) 48hr EC ₅₀ =0.73mg/L(Daphnia magna)(FMC I95-2021) 120hr EC ₅₀ =0.18mg/L(Selenastrum, green algae) (FMC I95-2027)
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Chemical fate information	No data available for the product. Peracetic acid is completely miscible with water. Aqueous solutions of peracetic acid hydrolyse to acetic acid and hydrogen peroxide.
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13. DISPOSAL

This product does not contain any prescribed substance under the Environmental Protection Act (Prescribed Processes and Substances) Regulations 1991 but is classified as special waste under the Control of Substances (Special Waste) Regulations 1996. Wear suitable gloves and eye/face protection. For small quantities, dilute with water to at least 0.5% w/w (5 g/litre) and pour down a wastewater drain (foul sewer). Rinse out containers at least twice, crush or puncture and dispose of as commercial waste. For larger quantities contact a licensed waste management company.

14. TRANSPORT INFORMATION

Proper shipping name	Hydrogen Peroxide and Peroxyacetic acid mixtures, stabilised with acids, water and not more than 6% peroxyacetic acid
Primary hazard class/division	5.1 (Oxidiser)
Hazard class, subsidiary	8 (Corrosive)
UN/NA Number	UN 3149
Packing group	II

Label(s)	5.1 Oxidiser and subsidiary risk: 8 (corrosive)
Placard(s)	Bulk: 5.1 Oxidiser
Marking(s)	Hydrogen Peroxide and Peroxyacetic acid mixtures, stabilised with acids, water and not more than 6% peroxyacetic acid, UN 3149
IMDG	
Proper shipping name	Hydrogen Peroxide and Peroxyacetic acid mixtures, stabilised with acids, water and not more than 6% peroxyacetic acid
ICAO/IATA	
Proper shipping name	Hydrogen Peroxide and Peroxyacetic acid mixtures, stabilised with acids, water and not more than 6% peroxyacetic acid
Other Information	Dike any spills. Protect against damage. Use proper personal protective equipment and positive pressure self-contained breathing apparatus when handling spills or leaks. When shipped via vessel, container requires subsidiary placarding in addition to main hazard class placards.

15. REGULATORY INFORMATION

Peroxyacetic acid:

Symbol(s)	C Corrosive Xi Irritant N Dangerous for the environment O Oxidiser
Risk Phrase(s)	R7: May cause fire R10: Flammable R20/21/22: Harmful by inhalation, in contact with skin and if swallowed R36/37/37: Irritating to eyes, respiratory system and skin R35: Causes severe burns R50: Very toxic to aquatic organisms
Safety Phrase(s)	S1/2: Keep locked up and out of reach of children S3/7: Keep in a cool place and keep container tightly closed

S14: Keep away from: see incompatible materials in section 10
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 into the environment. Refer to special instructions/safety data sheets.

Hydrogen Peroxide

Symbol(s)

Xn Harmful

Risk Phrase(s)

R22: Harmful if swallowed
R41: Risk of serious damage to eyes

Safety Phrase(s)

S1/2: Keep locked up and out of reach of children
S3: Keep in a cool place
S17: Keep away from combustible material
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28: Avoid contact with skin, wash immediately with plenty of water and soap
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.

Acetic Acid

Symbol(s)

C Corrosive
Xi Irritant

Risk Phrase(s)

R10: Flammable
R35/34: Causes severe burns/causes burns
R36/38: Irritating to eyes and skin

Safety Phrase(s)

S1/2: Keep locked up and out of reach of children
S23: Do not breathe gas, fumes, vapour or spray
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S45: In case of accident or if you feel unwell, seek medical advice immediately – show the label where possible.

16. OTHER INFORMATION

Issue 1: 12/01/2010

Prepared in accordance with Regulation (EC) No 1907/2006

Disclaimer

The information contained in this document is intended to describe the product only in terms of health, safety and environmental requirements for the purposes of its safe handling, use and disposal and is to the best of Central Chemical Supplies Limited knowledge and belief correct. Central Chemical Supplies Limited Technical Services will be pleased to give further advice and assistance, but customers must satisfy themselves (by appropriate testing if necessary) that the product is suitable for their purposes and conditions of use and that their facilities and arrangements are suitable for handling or using the product. Accordingly Central Chemical Supplies Limited disclaims any liability for loss, injury or damage which may result from the use of the product, this information or from such advice and assistance save as may be expressly agreed under its terms of sale.

This information does not comprise a technical or performance specification for the product and customers are referred to any relevant product technical information or specification issued by Central Chemical Supplies Limited.

Customers are also reminded that there may be uses or application for the product which are protected by Central Chemical Supplies Limited or third parties' patent rights and nothing herein may be construed as an authority or encouragement to use or apply the product in contravention of such rights.