

SAFETY DATA SHEET

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

PRODUCT NAME: BLACKFAST 505 ACID PICKLE
APPLICATION: Protection for iron and steel components
COMPANY: Blackfast Chemicals
ADDRESS: 78 Coombe Road, New Malden, Surrey KT3 4QS, England
TEL/FAX NO'S: Tel: 020-8336 2900 Fax: 020-8336 0909

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:	Note:	< max %	Classification:	CAS-no:	EU-no:
Orthophosphoric Acid		50-80	C; R34	7664-38-2	231-633-2
Ethyl Diglycol		10-20	Xi; R36	111-90-0	203-919-7

(All components are EINECS/ELINCS listed or polymer exempt)

3. HAZARDS IDENTIFICATION Corrosive

4. FIRST AID MEASURES

INHALATION: Acid mist or fumes will only be generated when handling heated solutions. If affected, remove patient to fresh air and consult doctor.

INGESTION: If conscious, wash mouth with water and give water to drink. Transport to hospital.

SKIN: Remove all contaminated clothing and wash affected areas with plenty of soap and water. Consult doctor.

EYES: Immediately wash the eye for at least 15 minutes with plenty of water . Seek medical attention.

IMMEDIATE
MEDICAL ADVISE: Treat for corrosive effects.

5. FIRE FIGHTING MEASURES

SPECIAL FIRE/EXPLOSION HAZARD:

May decompose in fire producing toxic fumes. Risk of drums bursting.

PRODUCTS OF COMBUSTION:

Oxides of phosphorus.

FIRE FIGHTING PROCEDURES:

Keep containers cool and control any mist by spraying with water. Wear self-contains breathing apparatus.

EXTINGUISHING MEDIA:

Use extinguishing media suitable for material which is burning.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION:

Goggles giving complete protection to eyes. Plastic or rubber gloves and boots. Wear PVC overall. Have eyewash bottle with clean water available.

ENVIRONMENTAL PRECAUTIONS:

Large quantities spilling into water courses will damage aquatic life. Contain with earth or sand and recover as much as possible. Advise police if spillage enters sewers or water courses. Small quantities will have little effect and may act as plant nutrient. Neutralise with sodium bicarbonate or soda ash and collect into a plastic container for disposal by experts.

METHODS OF CLEANING UP:

Residues and small quantities should be neutralised with sodium bicarbonate or soda ash and collected into a plastic container for disposal by experts. Flush away any residues.

7. HANDLING AND STORAGE

PRECAUTIONS DURING HANDLING:

Wear goggles giving complete protection to eyes, plastic or rubber gloves and boots. Plastic suiting may be necessary if risk of splashing. Have eyewash facilities available. Do not use connections from metal which may be corroded. Avoid generating mists. Neutralising media should be available.

PRECAUTIONS DURING STORAGE:	Store in sealed drums. Maintain tanks and stores above crystallisation temperature.
PACKAGING MATERIAL:	Stainless steel or rubber lined tanks. Poly drums.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SPECIAL PROTECTIVE MEASURES RESPIRATORY:	If risk of spray or mist generation, wear full face mask respirator.
HAND:	Plastic or rubber gloves.
EYE:	Goggles.
SKIN:	Overalls and rubber boots. Plastic suiting may be necessary if risk of splashing.
EXPOSURE LIMITS:	1 mg/cu.m. 3 mg/cu.m. STEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colourless to pale straw viscous liquid.
TEMPERATURE CHARACTERISTICS:	Freezing point: 85% : 21°C 82% : 9°C 75% : minus 20°C
SOLUBILITY/MISCIBILITY IN WATER:	Miscible.
SOLUBILITY/MISCIBILITY IN SOLVENTS:	Miscible with lower alcohols. Immiscible with hydrocarbons and chlorinated hydrocarbons.
pH:	1.5
DENSITY @ 25°C:	85% : 1.685 g/ml. 82% : 1.650 g/ml. 75% : 1.574 g/ml.
ODOUR:	None
FLAMMABILITY:	Not combustible

10 STABILITY AND REACTIVITY

STABILITY:	Stable.
CONDITIONS/MATERIALS TO AVOID:	Reacts with some metals with evolution of hydrogen (risk of fire or explosion). Reacts vigorously with bases with evolution of heat. Avoid contact with strong oxidising and reducing agents.

11. TOXICOLOGICAL INFORMATION

TOXICITY:	LD50 (oral rat) 1530 mg/kg. LD50 (skin rabbit) 2740 mg/kg.
EFFECTS OF EXPOSURE	
EYES:	Corrosive, pain, blurred vision.
SKIN:	Corrosive, pain, skin burns.
INHALATION:	Spray will be corrosive to mucous membranes.
INGESTION:	Corrosive, sore throat, abdominal pain, nausea.
CHRONIC EFFECTS:	Not known.

12. ECOLOGICAL INFORMATION

MOBILITY:	Soluble in aqueous systems.
PERSISTENCE AND DEGRADABILITY:	Degraded. Will enter natural phosphorus cycle.
BIOACCUMULATIVE POTENTIAL: ECOTOXICITY:	Increase phosphorus potential. Dangerous to aquatic life in high concentrations. An LC50 for fish over 96 h of between 100 and 1000 ppm is reported. Low concentrations may act as plant nutrient or precipitate heavy metals.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:	Disposal by approved waste disposal operative.
DISPOSAL OF PACKAGING: NATIONAL OR REGIONAL LEGISLATION:	Recycle or scrap after washing. Classified as special waste for controlled disposal.

14. TRANSPORT INFORMATION

UN NUMBER:	1805
UK ROAD HAZCHEM CODE: CLASSIFICATION: PACKING GROUP	2R. Corrosive substance. III

RID-ADR
CLASS: 8
LABEL: Corrosive.
MATERIAL CODE: 11 ©.
KEMMLER CODE: 80

IMO
CLASS: 8
LABEL: Corrosive
IMDG PAGE: 1805
PACKING GROUP: III

MARPOL
ANNEX II: Category D
CARGO NAME: Phosphoric acid.
ANNEX III: Not classified.

ICAO
CLASS: 8
LABEL: Corrosive
PACKING GROUP: III
PASSENGER FLIGHT: 819-5L
CARGO FLIGHT: 821-60L

15. REGULATORY INFORMATION

HAZARDOUS INGREDIENTS: Phosphoric Acid
SYMBOL: C, Xi
RISK PHRASES: R34 Causes burns.
R36/38 Irritating to eyes and skin.
R41 Risk of serious damage to eyes.
SAFETY PHRASES: S20 When using do not eat or drink.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible), seek medical advise immediately (show the label where possible).

16. ADDITIONAL INFORMATION

Read the Application data sheet before using this or any Blackfast product. The product is intended for the stated use only. Do not use the product for any other application without obtaining advice from us beforehand.

If this product is for resale, ensure that the purchaser receives a copy of this information. If this product is for end use, ensure that your employees and others who may be affected are aware of the contents of this sheet.

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.