



SAFETY DATA SHEET

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

PRODUCT NAME: BLACKFAST 976 **IMMERSION** DETERGENT ADDITIVE
APPLICATION: Neutral detergent additive for phosphating and cleaning process baths
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

COMPOSITION: A blend of surfactants.
INGREDIENTS: Quaternary coco alkylamine ethoxylate
Alcohol ethoxylate
Alkyl glycol
SYMBOL: Xi
RISK PHRASES: R36
R41

3. HAZARDS IDENTIFICATION Irritant

Severely irritating to eyes

4. FIRST AID MEASURES

INHALATION: Not applicable.
INGESTION: Drink milk or water. If large quantities have been swallowed, obtain medical attention.
SKIN: Wash with water.
EYES: Rinse immediately with soft waterstream for several minutes.
Keep the eyelids wide apart. Obtain medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water mist or spray, foam, dry powder or carbon dioxide.
SPECIFIC HAZARD: The product is not flammable but may sustain combustion.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS: Prevent discharge of large amounts of concentrated product into sewage, wells and water courses.

CLEAN UP METHODS: Absorb large spills with sand, earth or other inert material. Collect and remove for destruction. Flush away traces with water.

7. HANDLING AND STORAGE

HANDLING: Normal handling. Eyewash should be immediately available.

STORAGE: No special requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES: Access to eye wash fountain.

PERSONAL PROTECTION: Close fitting safety goggles. Chemically resistant rubber or plastic gloves.

OCCUPATIONAL EXPOSURE LIMITS:

Alkyl glycol 150ppm (8 hour OES, EH40/99)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear yellow-brown liquid

pH IN SOLUTION (1% IN H₂O) 5 - 8

RELATIVE DENSITY @ 20°C: 1.0 - 1.05

SOLUBILITY IN WATER @ 20°C: Complete

SOLUBILITY IN ORGANIC SOLVENTS: Soluble in ethanol

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

INHALATION:	Not relevant due to the low vapour pressure of the product.
SKIN CONTACT:	Degreasing. Prolonged or frequent contact may give transient redness and skin cracking.
EYE CONTACT:	Severely irritating. May cause transient corneal injury.
INGESTION:	Low acute toxicity.
TOXICITY DATA:	LD ₅₀ (oral, rat): >2000 mg/kg (estimated) Skin irritation (rabbit): mild Eye irritation (rabbit): severe Sensitisation (Magnusson-Kligman): Non sensitising Mutagenicity (Bacteria, Ames' test): Not mutagenic

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	Quaternary coco alkylamine ethoxylate: Primary biodegradation >90%. Complies with the EEC directive 73/404/EEC on biodegradation for surfactants. <60% CO ₂ (28 days), modified Sturm Test (OECD 301B) Alcohol ethoxylate: Primary biodegradation >90%. Complies with the EEC directive 73/404/EEC on biodegradation >60% CO ₂ (28 days), modified Sturm Test (OECD 301B) for surfactants.
ECOTOXICITY:	Quaternary coco alkylamine ethoxylate: LC ₅₀ (96h) Oncorhynchus mykiss: 30 mg/l EC ₅₀ (48h) Daphnia: 13 mg/l EC ₅₀ (4h) Nitrifying bacteria: 1800 mg/l Alcohol ethoxylate: LC ₅₀ (96h) Oncorhynchus mykiss: 2.4 mg/l EC ₅₀ (72h) Skeletonema costatum: 4.5 mg/l
BIOACCUMULATION:	Bioaccumulation is not likely. The product is readily biodegradable and water soluble.

13. DISPOSAL INFORMATION

Disposal should be in accordance with local or national legislation.

14. TRANSPORT INFORMATION

ROAD: Not classified as dangerous for transport

15. REGULATORY INFORMATION

EEC CLASSIFICATION:	Irritant
SYMBOL:	Xi
RISK PHRASES:	R41 Risk of serious damage to eyes.
SAFETY PHRASES:	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
	S37/39 Wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

The above information, including health, safety and environmental information and recommended precautions is considered to be accurate at the time of issue. However, no warranty, guarantee or representation whether express or implied is given in respect of its accuracy. The information may not be accurate for all individuals and/or situations and/or applications. It is the obligation and responsibility of users to evaluate this information and to use the product safely and to comply with all applicable laws and regulations.

Blackfast Chemicals shall not be responsible for any damage, injury or loss, consequential or otherwise resulting from the use of the product or from failure to adhere to recommendations.

Development Policy: Blackfast Chemicals has a policy of continuous product development and information contained herein may change without notice.