



## SAFETY DATA SHEET

### HighFoam Plus

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

PRODUCT NAME	HighFoam Plus
PRODUCT NO.	178-4
APPLICATION	Cleaning agent
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#### 2 HAZARDS IDENTIFICATION

Irritating to eyes and skin.

CLASSIFICATION (1999/45)      Xi;R36/38.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
2-(2-BUTOXYETHOXY)ETHANOL	203-961-6	112-34-5	< 1%	Xi;R36
ALKYLAMINE DICARBOXYLATE	290-476-8	90170-43-7	10-30%	Xi;R36.
SODIUM HYDROXIDE	215-185-5	1310-73-2	1-5%	C;R35
TRISODIUM NITRILOTRIACETATE	225-768-6	5064-31-3	1-5%	Carc. Cat. 3;R40 Xn;R22 Xi;R36

The Full Text for all R-Phrases are Displayed in Section 16

#### 4 FIRST-AID MEASURES

##### INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

##### INGESTION

Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

##### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Rinse the skin immediately with lots of water. Use suitable lotion to moisturise skin. Get medical attention if irritation persists after washing.

##### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

# HighFoam Plus

**SPECIFIC HAZARDS**

Oxides of: Carbon. Nitrogen.

**6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

For personal protection, see section 8.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or onto the ground.

**SPILL CLEAN UP METHODS**

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery.

**7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

**STORAGE CLASS**

Chemical storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
2-(2-BUTOXYETHOXY)ETHANOL	WEL	10 ppm	67,5 mg/m3	15 ppm	101,2 mg/m3	
SODIUM HYDROXIDE	WEL				2 mg/m3	

WEL = Workplace Exposure Limit.

**PROTECTIVE EQUIPMENT**



**PROCESS CONDITIONS**

Provide eyewash station.

**ENGINEERING MEASURES**

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

**RESPIRATORY EQUIPMENT**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

**HAND PROTECTION**

Use protective gloves made of: Polyvinyl chloride (PVC). Rubber (natural, latex). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear splash-proof eye goggles to prevent any possibility of eye contact.

**OTHER PROTECTION**

Provide eyewash station.

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE**

Clear, yellowish liquid

**ODOUR**

Characteristic

**SOLUBILITY**

Soluble in water.

**BOILING POINT (°C)**

~ 100

**MELTING POINT (°C)**

~ 0

**HighFoam Plus**

RELATIVE DENSITY ~ 1.045 (20°C)

VOLATILE ORGANIC COMPOUND 0 g/litre  
(VOC)**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid contact with acids. Reacts strongly with concentrated acids and chloro-hydrocarbons.

**HAZARDOUS POLYMERISATION**

Will not polymerise.

**HAZARDOUS DECOMPOSITION PRODUCTS**

No specific hazardous decomposition products noted.

**11 TOXICOLOGICAL INFORMATION****GENERAL INFORMATION**

This product has low toxicity. Only large volumes may have adverse impact on human health.

**INHALATION**

May cause irritation to the respiratory system.

**INGESTION**

May cause discomfort if swallowed.

**SKIN CONTACT**

Irritating to skin.

**EYE CONTACT**

Irritating to eyes.

**HEALTH WARNINGS**

Serious long-term effects are not known to be related to this type of product.

**ROUTE OF ENTRY**

Ingestion. Skin and/or eye contact.

**MEDICAL SYMPTOMS**

No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

Name	SODIUM HYDROXIDE
Toxic Dose 1 - LD 50	40 mg/kg (oral-mouse)

**OTHER HEALTH EFFECTS**

This substance has no evidence of carcinogenic properties.

Name	2-(2-BUTOXYETHOXY)ETHANOL
Toxic Dose 1 - LD 50	5660 mg/kg (oral rat)

Name	TRISODIUM NITRILOTRIACETATE
Toxic Dose 1 - LD 50	1000-2000 mg/kg (oral rat)

**Toxicological information**

Nitrilotriacetic acid, trisodium salt (NTA) has caused kidney tumours in rats and mice when administered orally in high concentrations. The tumours are based on organ damage that can only occur when extremely high threshold limit concentrations, as compared with possible human exposure, are exceeded. In view of the potential degree of exposure, there should be no cancer risk to humans.

Name	ALKYLAMINE DICARBOXYLATE
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product is not expected to be hazardous to waste water treatment processes. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product does not contain organically bound halogen. The product does not contain organic complexing agents with a DOC level of degradation of < 80% after 28 days.

LC 50, 96 Hrs, FISH mg/l &gt;100

EC 50, 48 Hrs, DAPHNIA, mg/l &gt;100

**MOBILITY**

The product is soluble in water.

**BIOACCUMULATION**

The product does not contain any substances expected to be bioaccumulating.

**HighFoam Plus****DEGRADABILITY**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product is biodegradable, but it must not be discharged into drains without permission from the authorities.

**WATER HAZARD CLASSIFICATION****WGK 2**

Name SODIUM HYDROXIDE

LC 50, 96 Hrs, FISH mg/l 125

**Mobility**

The product is soluble in water.

**Bioaccumulation potential**

The product is not bioaccumulating.

**Degradability**

The product is biodegradable.

Name 2-(2-BUTOXYETHOXY)ETHANOL

**Bioaccumulation potential**

The product does not contain any substances expected to be bioaccumulating.

**Degradability**

The product is biodegradable.

Name TRISODIUM NITRILOTRIACETATE

LC 50, 96 Hrs, FISH mg/l 114-470

EC 50, 48 Hrs, DAPHNIA, mg/l 560-1,000

IC 50, 72 Hrs, ALGAE, mg/l 180-320

**Mobility**

The product is soluble in water.

**Bioaccumulation potential**

The product does not contain any substances expected to be bioaccumulating.

**Degradability**

The product is biodegradable.

Name ALKYLAMINE DICARBOXYLATE

EC 50, 48 Hrs, DAPHNIA, mg/l 97

**Mobility**

The product is soluble in water.

**Bioaccumulation potential**

The product is not bioaccumulating.

**Degradability**

The product is biodegradable.

**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

The packaging must be empty (drop-free, when inverted)

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	8		
PROPER SHIPPING NAME	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Nitrilotriacetate)		
UN NO. ROAD	1719	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(E)

**HighFoam Plus**

HAZARD No. (ADR)	80	ADR LABEL NO.	8
HAZCHEM CODE	2R	CEFIC TEC(R) NO.	80GC5-II+III
RID CLASS NO.	8	RID PACK GROUP	III
UN NO. SEA	1719	IMDG CLASS	8
IMDG PAGE NO.	78 (vol 2)	IMDG PACK GR.	III
EMS	F-A, S-B	IMDG CODE SEGREGATION GROUP	18. Alkalis
UN NO. AIR	1719	AIR CLASS	8
AIR PACK GR.	III		

**15 REGULATORY INFORMATION**

## LABELLING



Irritant

## RISK PHRASES

R36/38 Irritating to eyes and skin.

## SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S35 This material and its container must be disposed of in a safe way.  
 S37 Wear suitable gloves.  
 S51 Use only in well-ventilated areas.  
 S23 Do not breathe vapour/spray.

## DETERGENT LABELLING

5 - < 15% Amphoteric surfactants  
 Anionic surfactants  
 < 5% NTA (nitrilotriacetic acid) and salts thereof

## EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations.

## NATIONAL REGULATIONS

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

**16 OTHER INFORMATION**

## GENERAL INFORMATION

This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.  
 Only trained personnel should use this material.

## REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 02/02/2011

REV. NO./REPL. SDS GENERATED 6

## RISK PHRASES IN FULL

R35 Causes severe burns.  
 R22 Harmful if swallowed.  
 R36 Irritating to eyes.  
 R40 Limited evidence of a carcinogenic effect.

## HighFoam Plus

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.