



SAFETY DATA SHEET HARDNESS

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

PRODUCT NAME HARDNESS
PRODUCT NO. X-096
APPLICATION TESTING WATER
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2 HAZARDS IDENTIFICATION

Irritating to eyes and skin.

CLASSIFICATION Xi;R36/38.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DISODIUM TETRABORATE		1330-43-4	10-30%	-
ETHYLENEDIAMINETETRAACETIC ACID TETRA SODIUM SALT		194491-31-1	5-10%	Xi;R36/37/38.
LITHIUM HYDROXIDE	215-183-4	1310-66-3	1-5%	Xn;R22. C;R34.
MICROCRYSTALLINE CELLULOSE	232-674-9	9004-34-6	30-60%	-
SODIUM DIETHYLDITHIOCARBAMATE	205-710-6	20624-25-3	1-5%	Xn;R22. Xi;R38,R41.
SODIUM DODECYL SULPHATE		151-21-3	< 1%	Xi;R36/37/38.
SOLOCHROME BLACK	217-250-3	1787-61-7	< 1%	Xi;R36. N;R51/53.

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

4 FIRST-AID MEASURES

INHALATION

Unlikely route of exposure as the product does not contain volatile substances.

INGESTION

Get medical attention immediately!

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists:
Continue flushing during transport to hospital. Bring these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

6 ACCIDENTAL RELEASE MEASURES

HARDNESS

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet. Risk of contact: Wear protective gloves and goggles/face shield.

ENVIRONMENTAL PRECAUTIONS

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

SPILL CLEAN UP METHODS

Avoid generation and spreading of dust. Collect in containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Avoid contact with skin and eyes.

STORAGE PRECAUTIONS

Keep in original container. Store in a cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DISODIUM TETRABORATE	WEL		1 mg/m3			
MICROCRYSTALLINE CELLULOSE	WEL		4 mg/m3		20 mg/m3	

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Goggles/face shield are recommended.

HYGIENE MEASURES

Wash promptly if skin becomes contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Solid
COLOUR	Grey
ODOUR	Odourless

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

11 TOXICOLOGICAL INFORMATION

INHALATION

Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature. Dust may irritate respiratory system or lungs.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Irritating to skin.

HARDNESS

EYE CONTACT

Irritating and may cause redness and pain.

ROUTE OF ENTRY

Skin and/or eye contact. Ingestion.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment. There are no data on the ecotoxicity of this product.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste is classified as hazardous waste.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
No transport warning sign required.

15 REGULATORY INFORMATION

LABELLING



Irritant

CONTAINS

ETHYLENEDIAMINETETRAACETIC ACID TETRA SODIUM SALT
LITHIUM HYDROXIDE
SODIUM DIETHYLDITHIOCARBAMATE
SODIUM DODECYL SULPHATE
SOLOCHROME BLACK

RISK PHRASES

R36/38 Irritating to eyes and skin.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
S46 If swallowed, seek medical advice immediately and show this container or label.
S56 Dispose of this material and its container to hazardous or special waste collection point.

16 OTHER INFORMATION

REV. NO./REPL. SDS GENERATED Version 1

SAFETY DATA SHEET STATUS

Approved.

DATE 23 March 2010

SIGNATURE D Ellis

HARDNESS

RISK PHRASES IN FULL

NC	Not classified.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.