

Floatdene Power Products Limited

HEAD OFFICE: FLOAIDENE HOUSE, 12 THE GREEN, NEWPORT PAGNELL, BUCKINGHAMSHIRE. MK16 0JW
 TEL: +44 1908 613030 FAX: +44 1908 613032 EMAIL: sales@floatdene.com

Reply to:

CONTRACTS OFFICE: 7 ELKINGTON ROAD, YELVERTOFT, NORTHAMPTON. NN6 6LU
 TEL: +44 1788 822844 FAX: +44 1788 822843 EMAIL: soneill@floatdene.com

FAX TRANSMISSION MESSAGE

COMPANY: Ministry of Transport	YOUR REF:
TO: Sjon Huizman	OUR REF: Shipment 3747/4
FAX NO: +31 70 39 51 724	DATE: 05 January, 2004
COPY TO:	NO. OF PAGES: 1 (Including this one)
FROM: S. E. O'Neill	

Subject: Loss of containers from MV Andinet

Further to our telephone conversation a few minutes ago, the substance in the containers is know as CCA. The best way to describe it is from the following guaranteed technical data.

GUARANTEED TECHNICAL DATA

Type designation: Type C (CCA)
 Standard: AWPA type C manufactured to ISO9002
 Weight per steel drum (chemical only): 100kg
 Weight including steel drum: +/-104kg
 Composition of CCA: Copper Oxide/Chromic Acid/Arsenic Pentoxide
 Description: Concentrated paste (72% oxide activity)
 Arsenic Acid: 37.8%
 Chromic Acid: 34.5%
 Copper Oxide: 13.7%
 Proportions of actives:

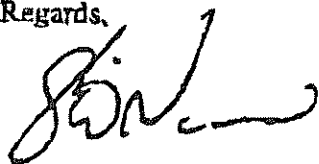
Arsenic as As ₂ O ₃	24.48%
Chrome as CrO ₃	34.2%
Copper as CuO	13.32%

gewichtsprocent
 koperoxide 13.7 %
 chromtrioxide 34.3 %
 arssee-pentoxide 24 %

On the Dangerous Goods Notes the hazard class is given as:
 Class 6.1 UN2902 Pkg. Grp:III

I hope that this is the information you require.

Regards,



S E O'Neill
 Contracts Director

+31 356775544

Osmose®

Material Safety Data Sheet
 Sheet No: CCA-C-72%EX
 Date: December 2002

1. PRODUCT SUPPLIER	CELCURE CCA TYPE C-72%	
	Protim Solignum Limited, Fieldhouse Lane, MARLOW, Buckinghamshire, SL7 1LS. UK Telephone: +44 1628 486844	
	EMERGENCY: +44 1628 890807	
2. COMPOSITION	Principal Ingredients	Concentration (%w/w)
	Copper oxide 1317-38-0	13.7
	Chromium trioxide 1333-82-0	34.3
	Arsenic pentoxide 1303-28-2	24.0
	For use as an industrial wood preservative in the control of wood-rotting fungi, wood destroying insects, including termites, and marine borers. For application, after appropriate dilution, by vacuum/pressure impregnation.	
3. HAZARDS	Toxic - Carc. Cat 1 Corrosive Dangerous for the environment R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	R45: May cause cancer. Harmful Toxic - R25: Toxic if swallowed. Irritant
4. FIRST AID	If symptoms are experienced, move to fresh air. Give artificial respiration if not breathing. Get immediate medical attention. Inhalation Swallowing DO NOT INDUCE VOMITING. If unconscious, place in the recovery position and apply supportive measures if necessary. If conscious, give patient water to drink. Get immediate medical attention. Skin contact Immediately wash skin with soap and running water. Remove contaminated clothing. Seek medical attention if symptoms occur. Eyes Wash with lots of water, lifting the upper and lower lids occasionally to bathe the eyeball thoroughly, for at least 15 minutes. Get immediate medical attention.	
5. FIRE-FIGHTING	Use carbon dioxide, dry chemical, foam or water fog. Do not use water jets, to prevent splashing of burning liquid. Extinguisher type Combustion products Combustion will result in the release of oxides of copper and chromium, arsine, arsenic trioxide and other volatilised arsenic compounds and sulphur dioxide. Procedures Wear self-contained breathing apparatus and full personal protective equipment.	
6. SPILLAGES	Remove all combustibles such as paper, wood, alcohol etc. Wear full personal protective equipment. Protective measures Clean-up method Only suitably trained personnel should approach the spillage. Absorb with sand or earth. Do not use sawdust. Transfer to a steel or plastic re-sealable container for subsequent disposal. Do not wash into drains or allow to contaminate watercourses or ground.	
7. HANDLING and STORAGE	As a general principle, handling procedures should minimize/eliminate contact between product and personnel. Store in closed, original, labelled container. Avoid extremes of temperature, and store away from readily-oxidisable or combustible materials such as paper, wood, alcohol etc.	
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	Engineering control of operator exposure must be used where reasonably practicable in addition to the items of personal protective equipment listed in Section 15. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. Occupational exposure limits must not be exceeded.	
9. PROPERTIES	Appearance Odour pH Boiling range orange/brown paste odourless < 1 starts at ca.100°C	



BS EN ISO 9001 BS EN ISO 14001
 PART 734 2003/04/09

An Osmose Company

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Flammability	non-flammable
Flash point	n/a
Auto Ignition temp.	n/a
Explosive Limits	n/a
Density (g/cm ³)	2.0 - 2.4 at 20°C
Miscibility	Soluble in water

10. REACTIVITY Avoid extremes of temperature. Avoid contact with oxidisable and combustible materials, and magnesium, aluminium, zinc, tin, iron or hydrochloric acid.

11. TOXICOLOGICAL INFORMATION
Eye Strong eye irritant, and may injure eye tissue if not removed promptly.
Skin Strong skin irritant, and harmful by skin contact.
 Long-term exposure may result in chroma sensitisation and irritative or allergic dermatitis. May cause sensitisation by skin contact so that subsequent contact causes severe irritation.
 LD₅₀ dermal (rat) male = 201mg/kg female = 1118mg/kg
Inhalation Inhalation of fume/vapour may be harmful and irritant.
Ingestion Toxic by ingestion.
 LD₅₀ oral (rat) male = 281mg/kg female = 584mg/kg

12. ECOLOGICAL INFORMATION
 Do not allow to contaminate water courses or ground. The chromium trioxide in this product is classified as very toxic to aquatic organisms, and may cause long-term adverse effects in the aquatic environment. The full eco-toxicological profile of this product has not been evaluated.

13. DISPOSAL METHODS
 Waste and contaminated materials should be clearly labelled and stored securely until they can be removed by a competent specialist contractor in accordance with local, state or national requirements for special industrial waste. Empty containers should be returned to the supplier, or clearly labelled and stored securely until they can be removed by a competent specialist contractor.

14. TRANSPORT INFORMATION
 UN 2902 Pesticide, Liquid, Toxic, N.O.S. (Contains Arsenic acid)
 UN Hazard Class 6.1
 Packing Group III
 Hazard Code 2X
 Marine Pollutant Yes

15. REGULATORY INFORMATION
 This product should be used by trained industrial operators only.
 Under the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3), the product is labelled:

T	TOXIC	Carcinogenic Category 1	R45	May cause cancer
T	TOXIC		R25	Toxic if swallowed
C	CORROSIVE		R35	Causes severe burns
Xn	HARMFUL		R20/21	Harmful by inhalation and in contact with the skin
Xi	IRRITANT		R43	May cause sensitisation by skin contact
N	DANGEROUS FOR THE ENVIRONMENT		R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S13	Keep away from food, drink and animal feeding stuffs.
S20	When using do not eat, drink or smoke.
S23	Do not breathe fume or vapour.
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.
S28	After contact with skin, wash immediately with plenty of water.
S36/37/39	Wear suitable protective clothing and eye/face protection.
S38	In case of insufficient ventilation wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53	Avoid exposure - Obtain special instructions before use.
S60	This material and its container must be disposed of as hazardous waste.

The following ingredients have been assigned exposure limits in the UK HSE publication EH40:

	OES (8 hours)	OES (15min.)	
Copper	2.0mg/m ³	1mg/m ³	Dusts and mists
	MEL (8hr TWA)		
Arsenic and compounds	0.1mg/m ³		
Chromium(VI)	0.05mg/m ³		

Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.

16. OTHER
 This product carries the risk of respiratory tract, skin and liver cancers. There is some evidence of possible mutagenic and carcinogenic effects of chromium compounds, especially hexavalent chromium. Workers exposed to this product should be subject to health surveillance, supervised by an occupational physician. For further information contact: Protim Solignum Ltd. - + 44 01628 486644.

Colours CCA - C72%
 MSDS CCA-C72%EX
 December 2002

PROTIM SOLIGNUM LTD, Fieldhouse Lane, Marlow, Bucks, SL7 1LS Tel: +44 (0) 1628 186644 Fax: +44 (0) 1628 476757 or 481276 (sales)
 www.protim.co.uk

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DIENST DER PUBLIEKE WERKEN
AMSTERDAM

0031497542415

RAADHUIS, KAMER 207
Telefoon 64655, telex 315

AMSTERDAM, 15 Juli 1952

Aan de heer Directeur-Generaal
van de Arbeid,
t.a.v. Ir. Groeneveld,
Nieuwe Uitleg 12,
's-GRAVENHAGE.

Eén onzer afdelingen wolmaniseert regel-
matig houten palen volgens het U' waarschijn-
lijk bekende procédé.

Het is gebleken, dat de oplossing, nog meer
dan het losse poeder, op verwondingen aan
handen e.d. een zeer bijtende werking heeft.

Gaarne zou ik van U vernemen, of deze stof,
hetzij in poedervorm, hetzij in oplossing,
bijzondere gevaren met zich brengt, en hoe
deze eventueel te keren zijn.

Indien U niet bekend zal ik U desgewenst
een monster doen toekomen.

De Veiligheidsinspecteur P.W

(A.J. Breman)

*Bevestigd
monsters naar 23/7/1952*

DIENST DER PUBLIEKE WERKEN
VAN DE ARBEID
INGEKOMEN
16 JULI 1952
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23 Juli

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15-7-'52 no. 145/7D

Dienst der Publieke Werken,


Raadhuis, kamer 207,

A m s t e r d a m.

wolmaniseren van houten
palen.

De naam Wolmanzout is een verzamelnaam voor verschil-
lands producten ter bestrijding van bederf in hout.
Meestal bevatten dergelijke producten dinitroarsol.
Daarnaast kunnen zij chromaten, fluoriden en arsenaten
bevatten. Nog afgezien van de giftigheid kunnen fluoriden
en chromaten en waarschijnlijk ook dinitroarsol een bij-
tende werking op de huid uitoeffenen. Als veiligheidsmaat-
regelen dient men inademing van droge stof zorgvuldig te
vermijden, vooral bij warm weer. Ter bescherming van de
handen kunnen gummi handschoenen dienen. Men doet echter
verstandig ook verontreiniging van de overige huid zoveel
mogelijk te vermijden.

De Scheikundig-Adviseur bij de
Arbeidsinspectie;



F. Groeneveld.

vt.

-:674.04