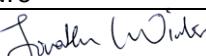


Hazardous Substances Policy - Assessment

CHEMICAL HAZARD AND RISK ASSESSMENT

College of Life & Environmental Sciences

Name of supervisor	Ole Jensen		Assessment Number*	
	Signature			
Assessor	Jonathan Winter		Date of Assessment	09/11/2020
	Signature			

Notes Read the guidance notes at the end of the form for help on completing an assessment. Please complete this form as an ELECTRONIC VERSION ONLY and submit it to the School's appropriate technical manager for approval.

1	LOCATION OF THE WORK ACTIVITY		MEG Laboratory (Control Room), Centre for Human Brain Health	
2	PERSONS WHO MAY BE AT RISK			
	List names where possible	MEG Operators & Participants		
3	ACTIVITY ASSESSED			
	Usage of Perfektan TB to disinfect EEG Caps and Reusable Ag/AgCl electrodes.			
4	MATERIALS INVOLVED			
NAME and CAS #	AMOUNT and FORM	SIGNAL WORD	HAZARD STATEMENT(S)	REPORTABLE?
N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium propionate #107879-22-1	Amount dependent on volume of 3% solution prepared, usually 1L Form: Greenish-blue Liquid (used from screw-top 1L bottle)	Danger	H314: Causes severe skin burns and eye damage. H410: Very toxic to aquatic life with long lasting effects.	No
Alcohol ethoxylate C9-C11 #68439-46-3				
Cocos propylene diamine guanidium acetate #85681-60-3				

If a substance is reportable, have you reported it to Occupational Health?

YES / NO (See note 4)

Is the substance a controlled drug or precursor under the Misuse of Drugs Act 1971 and associated regulations?

YES / NO (See note 14)

5	INTENDED USE and JUSTIFICATION (where appropriate)
Give brief details and attach protocol/instructions. Justification is needed for exceptionally hazardous substances (See note 5) Disinfection of EEG caps and reusable Ag/AgCl electrodes in line with Coronavirus SARS CoV-2 risk assessments, by MEG Operators. Soaking in 3% Perfektan TB for 15min has bactericidal, yeasticidal, fungicidal and viricidal activity, as well as being effective against all enveloped viruses such as Coronavirus SARS-Cov-2.	

6	RISKS to HEALTH and SAFETY from INTENDED USE
From personal exposure or hazardous reactions. Refer to WELs, flash points, etc., as appropriate. Are pregnant women, breast-feeding mothers especially at risk? The substance to be used is hazardous, but given the volume and dilution intended for use – risks to health and safety are negligible provided the stated control measures (see section 8) are strictly adhered to. Can cause severe burns and skin corrosion/irritation, and eye damage/irritation.	

7	CONCLUSIONS ABOUT RISKS
Is level of risk acceptable? Can risk be prevented or reduced by change of substance/procedure? Are control measures necessary? Minimal / acceptable risk from intended use if the stated control measures (see section 8) are strictly adhered to.	

8	CONTROL MEASURES
Additional to <i>Good Chemical Practice</i> , e.g. fume cupboard, etc. Any special requirements, e.g. glove type, etc.	
Precautionary statements:	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P273	Avoid release to the environment.
P501	Dispose of contents/container to approved disposal company or local collection.
Storage and handling:	
Keep container tightly closed in a dry, cool and well-ventilated place.	
Keep at temperatures between 5°C and 25°C.	
Keep away from food, drink and animal feeding stuffs.	
Protective measures:	
Wear tightly fitting goggles or visor.	
Wear chemical-resistant gloves (minimum protection index 2, corresponding to a permeation rate > 30 minutes according to EN 374) and long-sleeved clothing.	
Wash hands immediately after handling the product.	
When using do not eat, drink or smoke.	
Remove contaminated clothing immediately and wash before reuse.	
Avoid contact with skin, eyes and clothing.	
Use only in well-ventilated areas.	

9 INSTRUCTION/TRAINING

Specify course(s) and/or special arrangements.

All staff and post-graduate (PG) students returning to CHBH after the COVID-19 restricted access period must complete the following mandatory training:

- University Canvas Course
- Building Induction (via online meeting with CHBH Operations Manager)
- MEG Refresher Training (in Lab with MEG Support Officer) – **MEG Operators only.**

All staff and PG students must sign a declaration to confirm that both training and induction have been provided, completed and understood.

Use as per the instructions on the bottle.

10 MONITORING

Performance of control measures.

N/A

Personal exposure

Health Surveillance, specify measures agreed with health and Safety Unit.

The integrity of all personal protective equipment must be checked by each user before use and any defective items replaced / renewed.

N/A

11 WASTE DISPOSAL PROCEDURE

See School Server for Approved Procedure Document on specific Chemical Waste Disposal.

Include name, 6-digit code and H number if waste is to be disposed of by outside contractors (See note 11)

The Safety Data Sheet statement, section 12:

"This concentrate is not allowed to be released into the sewerage, surface water or ground water" only applies to the original solution, due to the very concentrated ingredients.

The prepared solution will be strongly dissolved, usually in the range 1-4%.

The ready-made solution – in the small amounts as prepared under circumstances of regular usage – can be disposed of via the sink.

If any concentrate remains, and the bottle needs to be disposed of, see section 13 below.

12 REVIEW

Enter the date or circumstances for review of assessment (maximum review interval 5 years)

November 2021 or earlier if usage / circumstances change significantly.

13

EMERGENCY ACTION**TO CONTROL HAZARDS**

To stabilize situation e.g., spread absorbent on liquid spill; eliminate sources of ignition, etc.

Product itself does not burn, co-ordinate fire-fighting measures to the fire surroundings (fire-fighters to wear protective clothing, to use self-contained breathing apparatus).

Cool containers at risk with water spray.

Do not flush concentrate into surface water, ground water or sewerage system.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into appropriate container for disposal.

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

Can be incinerated, when in compliance with local regulations.

Waste code No.

070699 Wastes from organic chemical processes; wastes from the MFSU of fats, lubricants, soaps, disinfectants, detergents and hygiene products; wastes not otherwise specified.

TO PROTECT PERSONNEL

Evacuation, protection for personnel involved in clean-up, Special First Aid

General Information:

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

After inhalation:

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

After contact with skin:

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult an Ophthalmologist immediately.

After ingestion:

Do not induce vomiting. Rinse mouth with water. Drink plenty of water.

Seek medical advice and show the container or label.

Attention! In case of vomiting – acute danger of suffocation because of foaming ingredients.

TO RENDER SITE OF EMERGENCY SAFE

Clean-up/decontamination

Thoroughly wash area with clean water and detergent; run to waste with large quantity of running water.

Dry area thoroughly.

Used paper towels/wipes to be disposed of as clinical waste.

CONTACT

Jonathan Winter

PHONE

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