



De La Salle University

Research Ethics Review Committee

Research Ethics Office, 3F Henry Sy Sr. Hall
De La Salle University Manila
2401 Taft Avenue, Manila 1004, Philippines
REO@dlsu.edu.ph (632) 524-4611 loc. 513

SOP No.: 2

Form No.: 2(I)

Version No.: 2

Version Date: November
2016

DE LA SALLE UNIVERSITY

Checklist E¹

Research Ethics Checklist on the Use of Toxic Substances

This checklist must be completed AFTER the De La Salle University Code of Research Ethics and Guide to Responsible Conduct of Research has been read and BEFORE gathering data. The University Code of Research Ethics is available at http://www.dlsu.edu.ph/offices/urco/forms/URCO-Code-of-Research-Ethics_August2011.pdf

NOTE: This checklist is completed after the research proponent fills out the General Checklist Form

Only answer this Checklist if you answered YES on question 5 of the General Checklist.

Researcher Details	
Lead Researcher's Signature	
Lead Researcher's Name (Please Print)	
Email Address	
Department	
Proposed Title of the Research	
Term(s) and academic year in which research project is to be undertaken	
Other faculty members involved in project and their department affiliation(s)	

¹ This checklist serves as a guide to make the researcher aware of the ethical issues that may have to be addressed in planning a study.



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How would you classify the toxic chemicalsⁱ that will be used in your study (see last page for list of chemicals that require special permits):

- _____ Corrosive (can injure body tissue or corrode metals)
- _____ Flammable (have the potential to catch fire readily and burn in air)
- _____ Oxidizer and reactive (chemicals that can explode or react violently with water or atmospheric oxygen)
- _____ Toxin (substances that even in small amounts can injure body tissues)
- _____ Mutagen/Carcinogen (can cause mutation or cancer)
- _____ Allergen (can cause adverse reaction to the immune system)
- _____ Irritant (can cause inflammatory effects on living tissues)
- _____ Neurotoxin (can induce adverse effect on the central or peripheral nervous system)

NOTE: *If a special permit is required, please secure permit from the Department of Environment and Natural Resources-Environmental Management Bureau (DENR-EMB) indicating that permission was granted. Please attach the documents to the research proposal.*

Please provide a brief description of the data collection procedure to be undertaken in the research:



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IMPORTANT NOTE: The proponent is required to read/ check the Material Safety Data Sheet (MSDS) for each of the chemicals to be used. MSDS is a detailed description of the chemical's composition and properties provided by the company where this chemical will be purchased. It also provides information on the first-aid measures, accidental release measures, appropriate personal protective equipment (PPE) and necessary precautions to ensure safety and proper handling of chemicals. This can be found at the Science Lab website at <https://www.sciencelab.com/msdsList.php>. The proponent is also required to coordinate with the **University Pollution Control Officer (c/o the Campus Sustainability Office)**, for the inclusion of hazardous chemicals that will be used by the research.

The following items refer to some important ethical and safety considerations in the conduct of research with toxic chemicals. Provide a check for the appropriate answer to each question.

	YES	NO	Not Applicable
1. Will the toxic chemical/s be used as components/materials to generate another product? If yes, please indicate the product to be generated on the space provided. _____ _____ _____ _____			
2. Will the toxic chemical/s be generated as a by-product of another process? If yes, please attach a description of the process to this checklist form.			
3. Are these chemicals going to be purchased and transported to the laboratory? Answering with a "NO" indicates that the chemicals to be used are available in the laboratory. Please			



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<p>attach a listing of personal protective equipment (PPE) that will be used by the researcher.</p> <p>If yes, please attach a description of the safety measures to be undertaken during the transport. Please attach a listing of personal protective equipment (PPE) that will be used by the researcher.</p>			
<p>5. Are you conducting part of your research/experiments outside the University?</p> <p>If yes, indicate the laboratory where you are going to conduct your experiment on the space provided:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>			



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	YES	NO	Not Applicable
<p>6. Do you intend to use/introduce the toxic agent/substance to an organism?</p> <p>If yes, please indicate the organism and the manner of introduction by which the agent will be introduced on the space provided:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>			
<p>7. Will the experiment require your exposure to the toxic chemical for a long period of time?</p> <p>If yes, please indicate the duration of exposure:</p> <p>_____</p>			
<p>8. Will the experiment require recurrent exposure to the toxic chemical?</p> <p>If yes, please indicate the frequency and duration of exposure:</p> <p>_____</p>			



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9. Will you need to treat, store and dispose toxic/hazardous waste generated by your research?

If yes, kindly indicate the Waste Codes and Classification of the toxic/hazardous wastes in the table belowⁱⁱ (see last page for waste codes):

Waste Code:	Classification:	Volume:

10. Does your research aim to produce/generate a product with commercial value?

If yes, do you wish to apply for a patent for your research?

Please check:

☐ Yes
☐ No

Answering YES to any of the items will signal an ethical issue that needs to be addressed. Some actions that will allow for the adherence to research ethical principles are provided with each item. The researcher will have to determine how these actions are to be incorporated into the research procedure. The researcher is advised to refer to the University's Guide to the Responsible Conduct of Research for other procedures to ensure adherence to ethical principles in the conduct of research.

Declaration



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I certify that I have read and understood the De La Salle University Code for the Responsible Conduct of Research and will abide by the ethical principles in this document. I have coordinated with the University Pollution Control Officer for the proper treatment, storage and disposal of hazardous wastes that the research will generate.

Name and Signature of Principal Investigator

Date

FOR GRADUATE and UNDERGRADUATE DLSU STUDENTS ONLY

I confirm that the student(s) is/are capable of undertaking this research in a safe, responsible and ethical manner.

Adviser's Name


Signature

Date

ⁱ Chemicals included in the Priority Chemical List (PCL) and the Chemical Control Order (CCO) will require special permit applications with the DENR – EMB. For reference, see lists below or researcher may coordinate with the University Pollution Control Officer.

Priority Chemical List:

1,1,1,- Trichloroethane**	Carbon Tetrachloride	Ethylene Oxide	PCB
1,2 Diphenylhydrazine	ChloroflouroCarbons CFCs)**	Halons**	Pentachlorophenol
Arsenic compounds	Chloroform	Hexachlorobenzene	Phosgene
Asbestos*	Chlorinated Ethers	Hexachloroethane	PBB
Benzene	Chromium Compounds	Lead Compounds	Selenium

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Beryllium Compounds	Cyanide Compounds*	Mercury Compounds*	Tributyltin
Cadmium Compounds	Ethylene Dibromide	Mirex	Vinyl Chloride

Note: * Are now subject to CCO
**now belong to CCO for ODS

Addition of 20 chemicals and compounds to the previous list of 28:

1,4 Chlorobenzene	Chloropicrin	Methylene chloride (Methylene, dichloro)
1,2 Dibromoethane	Diethyl sulfate	Perchloroethylene(Ethene, tetrachloro)
0-Dichlorobenzene	Glutaraldehyde)	Phenicacid (Phenol)
1,4-Dichlobenzene	Formaldehyde	PhtalicAnhydride
1,2-Dichloroethane	Hydrazine	Trichloroethylene(Ethene, dichloro)
3-Hydroxyphenol	Mercaptan, Perchloromethyl	MBT (2(3H)-Benzothiazolthione
Antimony Pentachloride	Methyl Chloride (Methene, chloro)	

Note: users, manufacturers, distributors, and importers are required to register as hazardous waste generator at the EMB ROs and submit biennial report on their production and management information. Per DAO 2007-23, must also secure PCL Compliance Clearance from EMB-CO.

Chemicals subject to CCO

- Mercury & Mercury Compounds (DAO 97-38)
- Cyanide & Cyanide Compounds (DAO 97-39)
- Asbestos (DAO 2000-2)
- Ozone Depleting Substances (DAO 2013-25; 2004-08; 2000-18 and 2002-22)
- PCB (DAO 2004-1)
- Lead & Lead Compound (DAO 2013-24)

ii DENR – EMB Hazardous Waste Codes and Classification: The researcher is required to properly label all hazardous and toxic wastes generated by the research, according to the waste codes and classification presented below:

Waste Code	Classification
B201-B299	Acid Wastes
C301-C399	Alkali Wastes
D402-D499	Wastes with Inorganic Chemicals
E501,E502,E503,E599	Reactive Chemical wastes
F601-F699	Inks/Dyes/pigments/Resins/Adhesive/Latex/organic/ sludge
G703-G704	Waste organic Solvent
H802	Grease Wastes
I101	Used oil
J201	Containers
K301-K303	Stabilized Wastes
L401,L402,L403	Organic Chemicals
M501,M503,M504,M506,M507	Miscellaneous Wastes



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The researcher should coordinate with the University Pollution Control Officer for the storage, transport, treatment and disposal of Toxic/Hazardous Waste materials generated by the research.