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Trade name:	EHRLICH ALDEHYDE REAGENT				
Product code:	EAR-OT-X**	Date of compilation:	28 June 2019	Version:	3

SECTI	ON 1: Identification of the	e substance/m	ixture a	nd of the company/undertaking		
1.1.	Product identifier	Product identifier				
	Trade name:	EHRLICH ALDE	HYDE RE	AGENT		
	Chemical name:	-				
	Catalogue number:	EAR-OT-X**				
1.2.	Relevant identified uses	of the substan	ce or mix	ture and uses advised against		
	Uses:		For det	ecting urobilinogen in urine.		
	Uses advised against:		Only th	e identified uses are advised.		
	Reason why uses advise	sed against: The product is intended for use only as an <i>in vitro</i> diagnost medical device, registered at the Agency for Medicinal Product and Medical Devices and there is no reason to use it for oth purposes.				
1.3.	Details of the supplier o	f the safety dat	a sheet			
	Supplier:	BioGr	nost Ltd.			
	Address:	Medj	ugorska	59, Zagreb		
	Telephone number:	+385	1 24099	97		
	Telefax:	+385	1 24040	39		
	e-mail of competent per	rson: <u>msds</u>	<u>@biogno</u>	ost.hr		
	National contact:	-				
1.4.	Emergency telephone no	umbers				
	National Protection and	Rescue Directo	orate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ON 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC)) No 1272/2008 (CLP)			
	Hazard class and category code:	Hazard statements*:			
	Skin Corr. 1B H314				
2.1.2.	Additional information				
	-				
* For fu	ll text of Hazard- and EU Hazard-statements	s: see SECTION 16			
2.2.	Label elements				
	Product identification:	EHRLICH ALDEHYDE REAGENT			
	Identification number: -				
	Authorisation number:	-			



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	Hazard pictograms:	GHS05
	Signal word: Product identification:	Danger H214 Causes square skip burns and our damage
	Product identification:	H314 Causes severe skin burns and eye damage.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305 +P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P308+P313 IF exposed or concerned: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	-	

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
7647-01-0/ 231-595-7/ 017-002-01-X	-	< 10	Hydrochloric acid	Skin Corr. 1B; H314 STOT SE 3; H335			
100-10-7/ 202-819-0/ -	-	< 1	4-dimethylaminobenzaldehyde	Acute Tox. 3; H301 Aquatic Chronic 3; H412			

SECTIO	ECTION 4. First aid measures				
4.1.	Description of first aid meas	ures			
	General notes:	-			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.			



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	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.		
	Following ingestion:	If the afflicted person is unconscious, do not provide them with anything orally.		
	Self-protection of the first aider	No information available		
4.2.	Most important symptoms and effects, both acute and delayed			
	7 1	,		
	Following inhalation:	Allergic persons may display irritation after prolonged or repeated exposure.		
		Allergic persons may display irritation after prolonged or repeated		
	Following inhalation:	Allergic persons may display irritation after prolonged or repeated exposure.		
	Following inhalation: Following skin contact:	Allergic persons may display irritation after prolonged or repeated exposure. Allergic persons may display irritation.		
4.3.	Following inhalation: Following skin contact: Following eye contact: Following ingestion:	Allergic persons may display irritation after prolonged or repeated exposure. Allergic persons may display irritation. May cause irritation.		

SECTIO	ON 5. FIREFIGHTING MEASURES			
5.1.	Extinguishing media			
	Suitable extinguishing media.	Use fire extinguishing methods that suit the surrounding circumstances and ambient.		
	Unsuitable extinguishing media:	-		
5.2.	Special hazards arising from the substance or mixture			
	Hazardous byproducts of fire:	No information available		
5.3.	Advice for firefighters			
	Use a self-contained open-circuit compre Cool closed containers exposed to fire w	essed air breathing apparatus and fireproof clothing. ith water spray or vapor.		
5.4.	Additional information			
	Remove sources of heat and ignition.			
	Do not contaminate the environment wit	th extinguishing media.		

SECTIO	CTION 6. Accidental release measures				
6.1.	Personal precautions, protective ed	quipment and emergency procedures			
6.1.1.	Advice for non-emergency personnel:				
	Protective equipment: Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			



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6.1.2.	Advice for emergency responders:			
	Wear protective equipm	Wear protective equipment (see Section 8).		
6.2.	Environmental precaution	ons:		
	•	wage, drainage system and waterways. In case of large spillage contact National Directorate (NPRD) on 112.		
6.3.	Methods and materials	for containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information: Do not use tools that may cause sparks.			
6.4.	Reference to other sections			
	-			

SECTIO	DN 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoro	ughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompat	ibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			



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	Advid	Advices for storage equipment:				mu dra	must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Furth	urther information on storage conditions:			roc oth	om and do not	use empty Oo not sto	aterial in the storage containers for storing re with incompatible		
7.3.	Spec	ific end	use(s)							
	Reco	mmenc	dations:				-			
	Indus	strial se	ctor spe	cific solution	ns:		-			
SECTI	ON 8. E	xposur	e contr	ols/persona	l protec	tion				
8.1.	Cont	rol para	meters	meters						
	Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values			
						р	pm	mg/m³		
Contai substa	ins no h inces	azardo	us	-			-	-	-	
Substa	ance:	-								
EC No	:	-		CAS No:	-					
DNEL					·					
						Ind	ustrial			
Route	Route of exposure: Route of exposure: Route of exposure:		sure:	Route of expe	osure:	Route of exposure:				
Oral			-		-			-		-
Inhala	tion		-		-			-		-
Derma	 al		_	_			_			

Consumer Route of Route of exposure: Route of exposure: Route of exposure: Route of exposure: exposure: Oral Inhalation _ Dermal

Critical physical parameters: solubility, flammability, corrosivity:

PNEC

Environmental protection target	PNEC
Fresh water	No information available



Freshwater sediments

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No information available

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riestiwater seulifierits			NO IIIOIIIIatioii avallable		
Marine wa	ater		No information available		
Marine se	diments		No information available		
Food chai	'n		No information available		
Microorga	anisms in sewage treatment		No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering controls	Appropriate engineering controls			
	Substance/mixture related measures to prevent exposure during identified uses:	Use pers	sonal protective equipment. Do not eat, drink or smoke in kspace.		
	Structural measures to prevent exposure:	No infor	rmation available		
	Organisational measures to prevent exposure:	_	anization of work in order to reduce other worker's influence		
	Technical measures to prevent exposure:	No information available			
8.2.2.	Personal protection equipment:				
8.2.2.1.	Eye and face protection:	Safety g	lasses that stick to face (preventing splashing) or visor.		
8.2.2.2.	Skin protection				
		Protective material	ve gloves for long-time work (over 8 h) made of following ls:		
	Hand protection:		lloroprene, 0.5 mm,		
	Traina protection	- nitrile rubber, 0.35 mm,			
		-	rubber, 0.5 mm, nyl chloride, 0.5 mm.		
	Other skin protection:	Wear an	ntistatic clothing made of natural fibers (such as cotton) g sleeves, and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:	Not necessary. During long-term exposure wear a protective mask or a half mask equipped with filter A.			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Sect	tion 6		
	Structural measures to prevent exposure:	Use mod	dern equipment.		



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	nisational measures to nt exposure:	Adapt the work process to the required working conditions of the workplace.
Techn expos	nical measures to prevent sure:	See Section 6

1.	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	Liquid	No information available
	Colour:	Colorless	No information available
	Odour:	No information available	No information available
	Odour threshold;	No information available	No information available
	рН:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	Soluble in water (20 °C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available

SECTION 10.: Stability and reactivity



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10.1.	Reactivity:	No information available
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
10.3.	Possibility of hazardous reactions:	No information available
10.4.	Conditions to avoid:	No information available
10.5.	Incompatible materials:	Strongly oxidizing media.
10.6.	Hazardous decomposition products:	No information available

11.1.	Informati	on on to	kicological ef	fects						
	Acute tox	cicity:								
Route (N	/lethod	Sp	ecies	Effective I LD ₅₀ /LC ₅ ATE _{mixt}	or	Exposu	re time	Results
Oral:		No inf availal	ormation ole	-		No informa	ation	-		-
Derma	available available		-		-					
Inhalation:		No inf availal		-		No informa available	ation	-		-
	Specific t	arget org	an toxicity - :	single ex	κρosure (S	STOT-SE):				
	•		Specific effects				Ta	arget organ		Note
Oral: No informa			ormation ava	vailable			No information available			
Derma	l:	No inf	formation available				No information available			
Inhalat	ion:	No inf	lo information available				No information - available			
		i							1	
	Aspiratio	n hazard:			No infor	mation avail	able			
	Irritation	and corre	osion							
			Exposure tir	ne	Species	Evaluat	ion	Method		Note
Skin co	rrosion/irrit	tation	-	-		-		-	No info	rmation available
Serious eye damage/irritation			_	-		-		_	No info	rmation available



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Skin sensitization Respiratory	i: No inform	ation available						
sensitization:	No inform	ation available						
Sympto	ms related to the p	hysical, chemic	cal and toxicolog	ical characterist	ics			
Oral exposure:	Swallowing ma	ay cause discor	nfort in abdome	n and abdomina	ıl pains.			
Dermal exposure	: Allergic persor	ns may display	irritation.					
Inhalation exposure:	Allergic persor	ons may display irritation after prolonged or repeated exposure.						
Eye exposure: May cause irritation.								
Repeate	ed dose toxicity (su	bacute, subchr	onic. chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No information available	No information available	-		
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-		
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-		
Chronic oral	No information available	No information available	No information available	No information available	No information available	-		
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-		



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		Specific effec	its	Target organ	Note			
Subacu	ite oral	No information avai		No information available	-			
Subacu	ite dermal	No information avai	lable	No information available	-			
Subacu	ite inhalation	No information avai	lable	No information available	-			
Subchr	onic oral	No information avai	lable	No information available	-			
Subchr	onic dermal	No information avai	lable	No information available	-			
Subchr	onic inhalation	No information avai	lable	No information available	-			
Chronic oral		No information avai	lable	No information available	-			
Chronic	c dermal	No information avai	lable	No information available	-			
Chronic	c inhalation	No information avai	lable	No information available	-			
	Genotoxicity: Mutagenicity in-vive Germ cell mutageni Reproductive toxicit Summary of eval properties; :	icity : ty:	No inf	ormation available ormation available ormation available ormation available				
11.2.	Practical experience	25:						
	Classification obser	vations:	No ii	nformation available				
	Other observations:		No ii	nformation available				
11.3.	General notes:							

SECTION 12. Ecologic	cal informat	ion						
12.1. Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-		



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Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants:	IC ₅₀	8 days	No information available	No information available	No information available	-
Other organisms:	LC ₅₀	72 hours	No information available	No information available	No information available	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants:	IC ₅₀	72 hours	No information available	No information available	No information available	_

Persistence and degradability 12.2.

Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

			ra			

% Degradation	Time (days)	Method	Evaluation	Note	
No information available					



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12.3.	Bioaccu	mulative	e potentia	ıl							
	Octanol	l-water p	partition c	oefficient	(log Ko	w)					
Valu	e (Concenti	ration	рН	°C	М	ethod	E	valuation	Note	
No informa n availa	21/2	o infoi ailable	rmation	-	-	No info	ormation le	No in availa	formation ble	No informatio available	n
	Bioconc	entratio	n Factor ((BCF)							
V	'alue		Speci	es		Method	k	Eval	uation	Note	
No info availabl	rmation e	No avai	in lable	formation	No in	oformation ble		No infori available		No information available	
	Chronic Value	ecotoxi	city	Ex ₁	posure	Sr.	pecies	Ma	athod	Evaluation	Note
	value		DOS	e	time		ecies	Method		Lvaluation 140	
Chronic	Chronic toxicity on fish LC ₅₀		LC ₅₀	No infor availa	mation able	No infori availa	mation able	No info	ormation le	No information available	–
	toxicity on the toxicity of th		EC ₅₀		information in		mation able	No info	ormation le	No information available	_
12.4.	Mobility	y in soil									
	1		cted distr	ibution in	environ	mental o	compartm	ents:			
	No info	rmation	available								
	Surface	tension:									
	Valu	ıe	°C		Concent	ration		Method		Note	
	No informa available	ition i	No nformatio available	าก	o inform vailable	nation	No info			-	
	Adsorpt	tion / de	sorption								



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Transpor	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note		
Soil-Wat	er No information available	No information available	No information available	No information available	-		
Water-A	ir No information available	No information available	No information available	No information available	-		
Soil-Air	No information available	No information available	No information available	No information available	-		
12.5.	Results of PBT and vPvB assessment						
	No information available	le					
12.6.	Other adverse effects						
	No information availab	le					
SECTION	N 13. Disposal conside	rations					
13.1.	Waste treatment met						
13.1.1.	Product/Packaging di	sposal:					
	Submit for disposal to Protection.	o the legal person autho	rized by the Ministr	y of Environmental	and Nature		
13.1.2.	Waste codes/waste d	esignations according to	o Low:				
	No information availa						
13.1.3.	Waste treatment – re	lovant information:					
13.1.3.	No information availa						
13.1.4.	Sewage disposal – relevant information:						
	Waste must not be disposed of into the sewage system.						
13.1.5.	Other disposal recom	mendations:					
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.						
13.1.6.	Relevant Community	provisions:					
	-						



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SECTION 14. Transport information			
Transporting/shipment by road (ADR)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmental hazards:	_		
Special precautions for user:	-		
Transporting/shipment by rail (R)	ID)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmental hazards:	-		
Special precautions for user:	-		
Transporting/shipment by inland	waterways (ADN)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmental hazards:	-		
Special precautions for user:	-		
Transporting/shipment by sea (IN	MDG)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmental hazards:	-		
Special precautions for user:	-		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-		
Transporting/shipment by air (ICAO-TI/IATA-DGR)			
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		



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D1:						
Packing group:		-				

Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

5.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorisation and/or rest	rictions on use
	Authorisations:	-
	Restrictions:	-
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;
		The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances;
		EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals;
		EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants;
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
5.2.	Chemical safety assessme	ent
	None	

SECTION 16. Other information		
16.1.	Indication of changes:	-



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16.2.	Abbreviations and acronyms:		PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative LD ₅₀ Lethal dose, 50% LC ₅₀ Lethal concentration, 50% STOT - SE Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:		-
16.4.	4. Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)
Classifi	Classification		Classification procedure
16.5.	Rel	evant H statements (num	ber and full text)
	H:	H301	Toxic if swallowed.
		H314	Causes severe skin burns and eye damage
		H335	May cause respiratory irritation.
		H412	Very toxic to aquatic life with long lasting effects.
16.6.	Training advice:		-
16.7.	16.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to Chemical safety assessment