COSHH Assessment Form			СОЅН	COSHH ref.no		RA_130	21
			Date	Date			024
			Review	v date		⊡ _	
			Assess	sor name	9	Vittorio ((550612	
Activity name				Locati	on		
Outreach Lab Taster	Activity						
Intended activities/	Intended activities/ reaction scheme						
Aldol condensation	of acetone with	ı benzaldehyde					
H NaOH							
Linked assessments							
Chemicals used							
Name of material	Co nc Qu en an tra tit tio y n	CAS number	c	Hazard classifi cations	Hazard co statement		SD S
Benzaldehyde	99 10 .5 0 m L	100-52-7		Flam mable iquids (Cate gory 4) Acute coxicit (Cate gory 4) Acute coxicit	H302sw d Ha H312in wir Ca H315sk irri H317Ma ca	armful if /allowe armful contact th skin auses in in itation	sd s- en sd s

		LabCup y, Derm al (Cate gory 4) Skin corros ion/irri tation (Cate gory 2) Skin sensiti sation (Cate gory 1) Hazar dous to the aquati c enviro nment , short- term (acute), (Cate gory 2) Skin sensiti sation (Cate gory 1) Hazar dous to the aquati c enviro nment , short- term (acute gory 2) Skin (Cate gory 1) Hazar dous to the aquati c enviro nment , short- term (acute gory 2) Skin (Cate gory 1) Hazar dous to the aquati c enviro nment , short- term (Cate gory 1) Hazar dous to the aquati c (Cate gory 1) Hazar dous to the aquati c (Cate gory 1) Hazar dous to the aquati c (Cate gory 1) Hazar (acute gory 2) Skin (Cate gory 1) Hazar (acute gory 2) Short- term (acute gory 2) Short- term (acute gory 2) Short- term (acute gory 2) Short (Cate gory 2) Short- term (acute gory 2) Short- term (acute gory 2) Short- term (acute gory 2) Short- term (acute gory 2) Short- tory Short- term (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute gory 2) Short (acute (acute (acute) Short (acute (acute (acute) Short (acute (acute) (acu	skin reaction May cause allergy or asthma H334 symptom breathing difficultie s if inhaled Toxic to H401aquatic life
Acetone	5. 67-64-1 0L	Flam mable liquids (Cate gory 2) Specif ic target organ toxicit y - single expos ure (Cate gory 3, H336)	Highly sd flamm S- able en H225 liquid and vapou r May cause drowsi H336 ness or dizzin ess EUH066Repe ated expos ure may cause skin dryne ss or

				LabCup	cracki ng	
Ethyl Alcohol, pure	1 L	64-17-5		Flam mable liquids (Cate gory 2) Seriou s eye dama ge/ey e irritati on (Cate gory 2)	Highly flammabl H225e liquid and vapour Causes H319 ^{serious} eye irritation	sd s- en sd s- en
Sodium hydroxide-pellets	50 0 g	1310-73-2		Corro sive to Metals (Cate gory 1)	May be H290corrosive to metals	sd s- en
What are the hazards			vvn	o may be h	armed and how	
What are the hazards Corrosive/flammable re	agents,		Stud staf with	dents visitor f/technicians corrosive c	armed and how s participating in ex s supervising - burn hemicals or contac om broken glasswa	ns from contac t with hot
		ontrol the risk	Stud staf with surf	dents visitor f/technicians corrosive c	s participating in ex s supervising - burn hemicals or contac	ns from contac t with hot
Corrosive/flammable re		ontrol the risk Can the subs altogether?	Stud staf with surf s?	dents visitor f/technicians corrosive c ace. Cuts fr	s participating in ex s supervising - burn hemicals or contac om broken glasswa	ns from contac t with hot nre
Corrosive/flammable re What are you already		Can the subs	Stud staf with surf s? stance(s) I	dents visitor f/technicians a corrosive c face. Cuts fr be eliminate	s participating in ex s supervising - burn hemicals or contac om broken glasswa d Ye	t with hot are
Corrosive/flammable re What are you already Elimination		Can the subs altogether? Can the subs	stance(s) I stance(s) I stance(s) I	dents visitor f/technicians a corrosive c face. Cuts fr be eliminate	s participating in ex s supervising - burn hemicals or contact om broken glasswa d Ye	t with hot are
Corrosive/flammable re What are you already Elimination Substitution	doing to c	Can the subs altogether? Can the subs something sa Work on sma	Stud staf with surf sar? stance(s) l stance(s) l afer all scale. V ed lab inst	dents visitor f/technicians a corrosive c face. Cuts fr be eliminate be substitute Vear full PP	s participating in ex s supervising - burn hemicals or contact om broken glasswa d Ye	is from contac t with hot are Is V No
Corrosive/flammable re What are you already Elimination Substitution Engineering controls	doing to c	Can the subs altogether? Can the subs something sa Work on sma	Stud staf with surf sarf stance(s) l stance(s) l afer all scale. V ed lab inst COSHH p	dents visitor f/technicians a corrosive c face. Cuts fr be eliminate be substitute Vear full PP tructions clo provided.	s participating in ex s supervising - burn hemicals or contact om broken glasswa d Ye ed from Ye E	is from contac t with hot are Is V No
Corrosive/flammable re What are you already Elimination Substitution Engineering controls Administrative contro Personal Protective	doing to c	Can the subs altogether? Can the subs something sa Work on sma Follow details assessment/ nitrile gloves	Stud staf with surf sar? stance(s) l stance(s) l afer all scale. V ed lab insi COSHH p , lab coat	dents visitor f/technicians a corrosive c face. Cuts fr be eliminate be substitute Vear full PP tructions clo provided.	s participating in ex s supervising - burn hemicals or contact om broken glasswa d Ye ed from Ye E	is from contac t with hot are Is V No

LabCup

2024, 14:13		LabCup	1 1		
Check on contr	ol measures				
Is health surveillance required?	Can the substance be eliminated alt No If yes contact H&S Team	Training required?	Is training required? Yes Yes/No (Insert/append if yes) Detailed demonstration and discussion held by supervising member of staff at beginning		
Disposal	Solid produced will be collected ar Filtrates and other liquids dispose	d disposed of in suitable solid waste container.			
Emergency pro	cedures	Cautionary no	tes		
Emergency procedures What to do in the event of a spillage or fire In event of fire alarm - leave building via nearest safe exit guided by member of staff. Spillages of sodium hydroxide neutralised with dilute hydrochloric acid. Organic liquid spill mopped up with towel and towel left to vent in fume hood.		 Benzaldehyde: Keep away from heat, hot surfaces, sparks, oper flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ In case of inadequate ventilation wear respirator protection. IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell. P301 + P312 + P330 P301+P312+P330 IF ON SKIN: Wash with plenty of water/ P302 + P352 + P312 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P304+P340 			

LabCup

- Call a POISON CENTRE/doctor/... if you feel unwell.

- Specific measures (see ... on this label).

- Rinse mouth.

- If skin irritation occurs: Get medical advice/attention.

- If skin irritation or rash occurs: Get medical advice/attention.

- If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

- Take off contaminated clothing.

- In case of fire: Use ... to extinguish.

- P370+P378

- Store in a well-ventilated place. Keep cool.

- P403+P233

- Dispose of contents/container to ...

Acetone:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

- IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- Call a POISON CENTRE/doctor/... if you feel unwell.

- If eye irritation persists: Get medical advice/attention.

Ethyl Alcohol, pure:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- If eye irritation persists: Get medical advice/attention.

- Store in a well-ventilated place. Keep cool. Sodium hydroxide-pellets:

- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- IF ON SKIN (or hair): Take off immediately all

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			contaminated clothing. Rin	nse skin with water [or		
			shower]. - IF IN EYES: Rinse cautiously with water for			
			several minutes. Remove contact lenses, if present			
			and easy to do. Continue rinsing. - Immediately call a POISON CENTER/doctor/			
	What to do if person com	es into contact with				
	chemical (i.e. first aid)					
	Attachments					
	Attachments					
	Vittorio Caprio					
	Assessor	(55061280)	05/11/2024			
	name/signature					
		Vittorio Caprio				
	Validated by	(55061280)	05/11/2024			
	name/signature					
	H&S Co-ordinator					
	name/ signature	Thomas Britten	05/11/2024			
		(55134239),				
		Stuart Langley				
		(55117655)				