

Risk Assessment Form

Assessment number	Plastica COSHH 04
Location of work	Plastica
Process/Activity under assessment	Potential exposure from hazardous materials

Description of process/activity and operating conditions

Transferring powder/granules from 25kg drums by hand and filling small containers.



All Water Treatment personnel carry out this activity and sometimes personnel from other departments.

People at risk

Office staff		Maintenance staff		Cleaning staff		Contractors	✓
Emergency services personnel		Water Treatment staff	✓	Visitors		Others	✓

Hazard identification

Identify the hazards, health effects and routes of entry

Substance/mixture	Workplace Exposure Limit (WEL)	Health effects	Routes of Exposure
024 Total Hardness Plus	<ul style="list-style-type: none"> ▪ No exposure limits 	<ul style="list-style-type: none"> ▪ Causes serious eye irritation. 	<ul style="list-style-type: none"> ▪ Absorption through the skin and eyes. ▪ Ingestion. ▪ Inhalation.
029 Diatomaceous Earth FW-60	Cristobalite - Respirable Fraction 0.1 mg/m ³	<ul style="list-style-type: none"> ▪ May cause irritation. 	<ul style="list-style-type: none"> ▪ Absorption through the skin and eyes. ▪ Ingestion. ▪ Inhalation.
055 Chlorine Reducer	<ul style="list-style-type: none"> ▪ No exposure limits 	<ul style="list-style-type: none"> ▪ May cause irritation 	<ul style="list-style-type: none"> ▪ Absorption through the skin and eyes. ▪ Ingestion. ▪ Inhalation.
058 Multi Stain Remover	Oxalic acid - WEL (short term) 2 mg/m ³ - WEL (long term) 1 mg/m ³	<ul style="list-style-type: none"> ▪ Causes skin irritation. ▪ Causes serious eye irritation. 	<ul style="list-style-type: none"> ▪ Absorption through the skin and eyes. ▪ Ingestion. ▪ Inhalation.

Source of exposure

Times/places/activity, specify agent and route of entry

Activity	Agent	Route of entry	Exposure time
Transferring powder/granules from drums by hand and filling small containers.	All chemicals identified above	<ul style="list-style-type: none"> Absorption through the skin and eyes. Ingestion. Inhalation of powder/dust. 	7 hours/day

Evidence of contamination

Slight dust at end of run

Assessment of Risk

Please complete the risk rating using the scoring key below: -

(A) SEVERITY

- 10 Fatal
 5 Major injury/Serious damage
 2 Minor injury/Minor damage
 1 Negligible/Near miss

(B)

- 20 Certain (Most likely to happen)
 10 Likely (Not surprised if it happens)
 5 Possible (Could happen sometime)
 1 Remote (only a small chance it will happen)
 0.5 Improbable (probability close to zero)

LIKELIHOOD OF OCCURRENCE**(C) PEOPLE AFFECTED**

- 1 1-5 people affected
 2 6-50 people affected
 3 >50 people affected
 3 Vulnerable people or the public affected

- <10
 10-19
 20-49
 >50

RISK LEVEL

- Acceptable (A)
 Low (L)
 Medium (M)
 High (H)

Risk Rating					
Hazard	Severity	Likelihood	People affected	Risk rating	Risk Level
	A	B	C	A x B x C	H/M/L/A
Transferring powder/granules from drums by hand and filling small containers.	5	1	2	10	L

Engineering etc controls

Guarding	LEV/Vapour Recovery Systems	Interlocks	Enclosure
Standard Operating Procedure (SOP) Work Instructions			
Permits to work N/A			
Other relevant information (monitoring/testing etc) Annual Health Questionnaire to be introduced			

Personal Protective Equipment (PPE)

Eyes-face	✓	Hand-arm	✓	Feet-legs	✓	Respiratory	✓
Body		Hearing		Other (specify)			
<p>Specify when item(s) of PPE must be worn The following PPE is required to be worn when doing this operation:</p> <ul style="list-style-type: none"> • Approved chemical safety goggles. • Safety boots. • Disposable overalls. • Gloves. • If exposure is below WEL no respirator required. Otherwise, disposable half mask FFP3 respirator to BS EN 149 (fit test required). 							

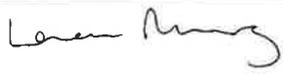
Further Control Measures (e.g. supervision, training requirements, special emergency procedures, health surveillance etc.)

Further Control Measures Required	Complete by (date)
<ul style="list-style-type: none"> • Remove the need for respirators by installing a ventilated enclosure around the filling operation with an inward airflow of at least 1 metre per second. • Measure levels of the chemicals in air to check the exposure is below the WEL for each chemical. Refer to G409 'Exposure measurement: Air sampling'. • Give information and instructions on the hazard exposure to all operators by making them aware of this assessment and by showing them the Safety Data Sheets where available. • Annual Health Questionnaire to be introduced. • Ensure face fit testing is carried out for each person for the half mask respirator. 	

Additional information (e.g. guidance documents, Approved Codes of Practice etc)

<http://www.hse.gov.uk/coshh>
 INDG136 'Working with substances hazardous to health: A brief guide to COSHH'
 INDG352 'Read the label'

Assessment made by:

Signature		Role	Regulatory Consultant, ChemRegs (UK) Ltd
Name	Lorna Murray	Date	17 December 2013

Review of Risk Assessment:

Date for Review	Carried out by	Role	Signature
November 2015	Ian Warne	Finance & Operations Supervisor	

