

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF T	HE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier	
Product Name	Chlorobenzene
CAS No.	108-90-7
EC No.	203-628-5
REACH Registration No.	
	bstance or mixture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals
Uses Advised Against	Not known.
 Details of the supplier of the safe Manufacturer 	ty data sheet
Company Identification	Rathburn Chemicals Ltd
Address of Manufacturer	6 Caberston Road
	Walkerburn
	Peeblesshire
	Scotland
Postal code	EH43 6AU
Telephone:	00 (44) (0) 1 896 870 651
E-mail	sales@rathburn.co.uk
Office hours Supplier	09:00 - 17:00
Company Identification	Rathburn Chemicals Ltd
Address of Supplier	6 Caberston Road
	Walkerburn
	Peeblesshire
	Scotland
Postal code	EH43 6AU
Telephone: E-mail	00 (44) (0) 1 896 870 651
Office hours	sales@rathburn.co.uk 09:00 - 17:00
1.4 Emergency telephone number	03.00 11.00
Emergency Phone No.	00 (44) (0) 1 896 870 651 or 00 (44) (0) 7807 520501
Contact	Roddy Stoddart.
2. SECTION 2: HAZARDS IDENTIFICA	TION
2.1 Classification of the substance of	r mixture
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P273: Avoid release to the environment. P302+P352: IF ON SKIN: Wash with plenty of water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER/doctor if you feel unwell.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
chlorobenzene	108-90-7	203-628-5		Flam. Liq. 3 H226 Acute Tox. 4 H332 Aquatic Chronic 2 H411	GHS02 GHS07 GHS09

4. SECTION 4: FIRST AID MEASURES	
4.1 Description of first aid measures Inhalation Skin Contact	Call a POISON CENTER/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Take off immediately all contaminated clothing. Rinse skin with water.
Eye Contact	Treat symptomatically.
Ingestion 4.2 Most important symptoms and effe	Treat symptomatically.
4.2 Most important symptoms and ene	Causes burns.
4.3 Indication of any immediate medic	al attention and special treatment needed
	Specific treatment (see Medical Advice on this label). Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.
5. SECTION 5: FIREFIGHTING MEASU	RES
 5.1 Extinguishing media Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from the s 	Use water spray, dry powder or carbon dioxide to extinguish. Water jet spray ubstance or mixture Flammable liquid and vapour. Combustion or thermal decomposition will evolve
	toxic and irritant vapours.
5.3 Advice for firefighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.
6. SECTION 6: ACCIDENTAL RELEASE	MEASURES
6.1 Personal precautions, protective e	
6.2 Environmental precautions	Chillenge an uncertainly discharges into uncertained much be also do the
6.3 Methods and material for containn	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body. nent and cleaning up
6.4 Reference to other sections	Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.
7 SECTION 7: HANDLING AND STOR	See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling



7.2 Conditions for safe storage, includ	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. ding any incompatibilities Store in a well-ventilated place. Keep cool.
Storage temperature Storage life Incompatible materials 7.3 Specific end use(s)	Ambient. Stable under normal conditions. None known.
- • •	PC21 Laboratory chemicals

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m³)	Note
Chlorobenzene	108-90-7	1	4.7	3	14	Sk
Monochlorobenzene	108-90-7	5	23	15	70	IOELV

Region EU

Source EU Occupational Exposure Limits UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020) United Kingdom

Remark	Notes
Sk	Notes Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic
	toxicity.
IOELV	Indicative Occupational Exposure Limit Values.

IOELV	toxicity. Indicative Occupational Exposu	kin. The assigned substances are those for which there are concerns that dermai absorption will lead to systemic
IOELV	Indicative Occupational Exposu	
8.2 Exposure co	ontrols	
8.2.1. Appropriat	e engineering controls	Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.
8.2.2. Personal p	protection equipment	
	ye Protection	Wear eye protection with side protection (EN166).
s s	kin protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
R	espiratory protection	A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
Thermal hazards		None known.
8.2.3. Environme	ental Exposure Controls	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
9. SECTION 9: P	HYSICAL AND CHEMIC	CAL PROPERTIES
9.1 Information	on basic physical and	chemical properties
Appearance		Liquid.
Odour		Colour : Colourless Not known.
Odour threshold		Not known.

pH Melting point/freezing point Initial boiling point and boiling range

Not known. -45C 132C

Ether



Flash Point	27 C
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive	Upper 11% (v) Lower 1.3% (v)
limits	
Vapour pressure	15.7hPa
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	1.106 g/cm3
Solubility(ies)	Solubility (Water) : 0.207 g/l
	Solubility (Other) : Alcohol, Benzene, Chloroform,
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	637C
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidising properties	Not known.
9.2 Other information	
	Not known.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	None anticipated.
10.2 Chemical Stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Avoid friction, sparks, or other means of ignition.
10.5 Incompatible materials	Not known.
10.6 Hazardous decomposition products	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified. LD50 (oral,rat) mg/kg:
Acute toxicity - Skin Contact Acute toxicity - Inhalation Skin corrosion/irritation Serious eye damage/irritation Skin sensitization data Respiratory sensitization data	Not classified. Harmful if inhaled. Causes skin irritation. Not classified. Not classified. Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.
11.2 Other information	
	Not known.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2. Persistence and Degradation	Not known.
12.3. Bioaccumulative potential	Not known.
12.4. Mobility in soil	Not known.
12.5. Results of PBT and vPvB	Not known.
assessment	
12.6 Other adverse effects	
	Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods



Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORM	<i>I</i> ATION
14.1 UN number	
UN No.	1134
14.2 UN proper shipping name	
UN proper shipping name	CHLOROBENZENE
14.3 Transport hazard class(es)	
ADR/RID Class	3
IMDG Class	3
IMDG EMS	F-E, S-D
ICAO/IATA	
Excepted Quantities	E1
Passenger and Cargo Aircraft Limited	Y344
Quantities Packing Instructions	
Passenger and Cargo Aircraft Limited	10L
Quantities Max net Qty	
Passenger and Cargo Aircraft Max net	355
Qty	
Passenger and Cargo Aircraft Max net	60L
Qty	
Cargo Aircraft Packing Instructions	366
Cargo Aircraft Max net Qty	220L
Special Provisions	
Emergency Response Guidebook (ERG) 3L
Code	
ADR Classification Code	F1
ADR HIN	30
ADR Transport Category	3
Tunnel Restriction Code	D/E
Emergency Action Code	2Y
APP Advice on Additional Personal	
Protection (APP)	
14.4 Packing group	
Packing group	
Labels	3
Special Provisions	· · ·
Limited Quantities	5 L
Excepted Quantities	E1
Mixed Packing Instructions for Packages	
Special Packing Provisions for Packages	
Mixed Packing Instructions for Packages	
14.5 Environmental hazards	
Environmental hazards	Classified as a Marine Pollutant.
14.6 Special precautions for user	
Special precautions for user	Not known.
14.7 Transport in bulk according to A	
Packing Instructions for Portable Tanks	T2
Special Provisions for Portable Tanks	TP1
Tank Code for Tanks	LGBF
Special Provisions for Tanks	
Vehicle for Tank Carriage	FL
venicle for rank Galllage	



Special Provisions for Carriage - Packages Special Provisions for Carriage - Bulk Special Provisions for Carriage - Loading, Unloading and Handling Special Provisions for Carriage - Operation	V12 S2
15. SECTION 15: REGULATORY INFOR	MATION
15.1 European Regulations Authorisations and/or Restrictions On Use Candidate List of Substances of Very	
High Concern for Authorisation REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	chlorobenzene (108-90-7)
Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals 15.2 National regulations	Not listed
Other	Not known.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: LEGEND Hazard Pictogram(s)



Hazard Statement(s)

Precautionary Statement(s)





H226: Flammable liquid and vapour.H315: Causes skin irritation.H332: Harmful if inhaled.H411: Toxic to aquatic life with long lasting effects.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water.

RATHBURN

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P321: Specific treatment (see Medical Advice on this label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.

P391: Collect spillage.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents in accordance with local, state or national legislation.

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