WF Education Group - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2

Revision date: Date printed:

16 April 2021 07 June 2021

CH208(

Section 1. Identification

1.1	Product Identifier	CH2080
	Product Name	2-CHLORO-2-METHYLPROPANE pure 100ml.
	CAS Number REACH Registration No	507-20-0 A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
	Molecular Formula	(CH ₃) ₃ CCl =92.57

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

1.4

WF Education Group



Phoenix House Battlefield Enterprise Park Stafford Drive Shrewsbury Shropshire SY1 3FE UNITED KINGDOM

Phone	+44(0)1743 81	2200
Email	sales@wf-educ	cation.com
Website	www.timstar.c	o.uk
Emergency Telephone	(08:30-17:00)	+44(0)1743 812200
	(24hr)	112
	(Have this doc	ument to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC Flammable liquid, category 2

H225: Highly flammable liquid and vapour.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Hazard Pictograms

Danger



Hazard Statements

Highly flammable liquid and vapour.

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep cool.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
2-chloro-2-methylpropane	507-20-0	208-066-4		>99%	Flam. Liq. 2
	-			-	

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.
Unquitable Madia	Do not use water ist

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Vapour-air mixtures are explosive.

5.3 Advice for firefighters

Hazards

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots.

6.2 Environmental precautions

Enviromental

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major SpillageContain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with
copious amounts of water.Minor SpillageContain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in
remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term	(8hr TWA)	Short Term	15min period)
2-chloro-2- methylpropane	507-20-0	>99%	-	-	-	-
Exposure da	ta source(s)	No occupational exposure da	ta currently availa	ble.		

8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hand Protection	Use solvent resistant gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
Odour	Fresh and characteristic.
pH	Not applicable
Boiling Point	51°C
Melting Point	-26.5°C
Flash Point	-30°C (Closed cup)
Upper Flammable Limit	10.1%
Lower Flammable Limit	1.8%
Auto Ignition	540°C
Explosive Properties	Severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	0.8470
Water Solubility	Sparingly soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
10.5	Incompatable Materials	Strong oxidising agents. Alkalis.
10.6	Hazardous Decomposition Products	None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Both the vapour and liquid may, be irritating to the eyes.
Skin	Both the vapour and liquid may, be irritating to the skin.
LD50 Skin	>2000mg/kg Rabbit
Ingestion	Low order of acute toxicity. Ingestion of large amounts will produce central nervous system depression. Ingestion will cause similar effects to inhalation.
LD50 Oral	2425mg/kg Rat
Inhalation	High concentrations of vapour may effect the central nervous system acting as a narcotic.
LD50 Inhalation	Not available
TCLo	15.3mg/l
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

Section 12. Ecological

12.1	Toxicity	Small amounts present no specific environmental hazard.
	LC50 Algal	Not available
	LC50 Crustacea	625mg/l Daphnia magna (24 hours)
	LC50 Fish	350mg/l Fish (48 hours)
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods Disposal Methods

Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

Section 14. Transport Information

14.1	UN Number	1127
14.2	Proper Shipping Name	Chlorobutanes
	Transport classes UN classification Subsidiary hazard(s)	3 None
	Transport category ADR Hazard ID Tunnel Restriction Code	2 33 D/E
14.4	Packing Group	II
14.5	Environment hazards	See section 12.
14.6	Special precautions for user	No special precautions required.
14.7	Transport in bulk	Not transported in bulk.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Flammable liquid, category 2
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H225 Highly flammable liquid and vapour.
Precautionary Statements	P210, P240, P280, P303+P361+P353, P403+P235 Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep cool.

Revision number: 1.2 (Supercedes revision 1.1)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 07 June 2021

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