

## **Gujarat Alkalies and Chemicals Ltd. Vadodara**

Promoting Green Technology							
SECTION 1: Product and Company Identification							
Name		CHLOROME	CHLOROMETHANE; METHYL CHLORIDE				
Company		M/s Gujarat	M/s Gujarat Alkalies and chemicals limited,				
-		P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346					
		halocarbon 40, mono chloro methane					
		Phone no. 09979897101, 09879604102					
Details	Details		E-mail headmarketing@gacl.co.in				
		ccr@gacl.co.in					
<b>SECTION 2:</b>	Hazards Ide	entification	1				
Emergency O	verview						
$\wedge$		Extremely flammable gas. Contains gas under pressure; may explode if					
	W >	heated.					
<b>-</b>	1.1 =66						
Potential Hea				d	C d		
Inhalation	nausea, vomiting, diarrhoea, headache, drowsiness, symptoms of drunkenness, visu						
		ances, bluish skin colour, lung congestion, nerve damage, paralysis, convulsions, fainting, blurred vision.					
Skin		<u>U'</u>		occ norvo damago			
-	irritation, blisters, symptoms of drunkenness, nerve damage. frostbite						
Eyes Ingestion							
	frostbite						
	Dispose of c	ontonts/cont	ainor to an annro	vod wasto disposal plant			
Disposal		-	• •	ved waste disposal plant			
Disposal SECTION 3:	Composition	n/informa	tion on ingredi	ents	Weight 0/		
Disposal SECTION 3: Comp	Composition onent	on/informa	tion on ingredi AS-No.	ents EC-No.	Weight %		
Disposal SECTION 3: Comp Methyl	Composition onent chloride	on/informa	tion on ingredi	ents	<b>Weight %</b> > 99.5		
Disposal SECTION 3: Comp Methyl SECTION 4:	Composition onent	on/informa C 7 easures	tion on ingredi CAS-No. 74-87-3	EC-No. 200-817-4	> 99.5		
Disposal SECTION 3: Comp Methyl	Composition onent chloride	easures  If breathe	tion on ingredicAS-No. 74-87-3 d in, move perso	EC-No. 200-817-4 In into fresh air. If not br	> 99.5		
Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation	Composition onent chloride	easures  If breathe respiration	tion on ingredicAS-No. 74-87-3 d in, move person. Consult a physic	EC-No. 200-817-4 In into fresh air. If not british.	> 99.5 reathing, give artificial		
Disposal SECTION 3: Comp Methyl SECTION 4:	Composition onent chloride	easures  If breathe respiration	d in, move person. Consult a physical or freezing occur	EC-No.  200-817-4  In into fresh air. If not britian.  our, immediately flush wit	> 99.5 reathing, give artificial h plenty of lukewarm		
Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation	Composition onent chloride	easures  If breathe respiration If frostbite water (41-	d in, move person. Consult a physical or freezing occurs. 46 C). Do not use	EC-No. 200-817-4 In into fresh air. If not britian. It immediately flush with hot water. If warm water	> 99.5 reathing, give artificial h plenty of lukewarm is not available, gently		
Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation Skin	Composition onent chloride	easures  If breathe respiration If frostbite water (41-wrap affect	d in, move person. Consult a physice or freezing occursed (C.). Do not use ted parts in blank	EC-No.  200-817-4  In into fresh air. If not british.  Sur, immediately flush with hot water. If warm water sets. Get immediate medic	> 99.5 reathing, give artificial h plenty of lukewarm is not available, gently al attention.		
Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation	Composition onent chloride	easures  If breathe respiration If frostbite water (41-wrap affect Wash eye	d in, move person. Consult a physical or freezing occursed parts in blanks immediately wi	EC-No. 200-817-4  In into fresh air. If not britian.  Iur, immediately flush with hot water. If warm water sets. Get immediate medicately flush amounts of water.	> 99.5 reathing, give artificial h plenty of lukewarm is not available, gently al attention. er, occasionally lifting		
Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation Skin	Composition onent chloride	easures  If breathe respiration  If frostbite water (41-wrap affect Wash eye upper and	d in, move person. Consult a physice or freezing occursed parts in blanks immediately will lower lids, until	EC-No.  200-817-4  In into fresh air. If not british.  Sur, immediately flush with hot water. If warm water sets. Get immediate medic	> 99.5 reathing, give artificial h plenty of lukewarm is not available, gently al attention. er, occasionally lifting		
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Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation Skin	Composition onent chloride	easures  If breathe respiration  If frostbite water (41-wrap affect wash eye upper and attention in the second attention attention in the second attention attention in the second attention atten	d in, move person. Consult a physical or freezing occurs (46 C). Do not use steed parts in blanks immediately will lower lids, until mediately. It is an unconscious of water. DO NOT in hips to help property.	EC-No.  200-817-4  In into fresh air. If not brotian.  Iur, immediately flush with hot water. If warm water sets. Get immediate medicate the large amounts of water no evidence of chemical ous person vomit or drivinduce vomiting. If vomit	> 99.5 reathing, give artificial h plenty of lukewarm is not available, gently al attention. er, occasionally lifting remains. Get medical nk fluids. Give large ting occurs, keep head		
Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation Skin  Eyes Ingestion	Composition onent chloride First Aid M	easures  If breathe respiration  If frostbite water (41-wrap affect wash eye upper and attention in the second attention attention in the second attention attention in the second attention atten	d in, move person. Consult a physice or freezing occursed parts in blanks immediately will lower lids, until mediately.  I water. DO NOT in hips to help prode. Get medical at	EC-No.  200-817-4  In into fresh air. If not britian.  The immediately flush with hot water. If warm water wets. Get immediate medical the large amounts of water no evidence of chemical ous person vomit or driving induce vomiting. If vomit event aspiration. If person	> 99.5 reathing, give artificial h plenty of lukewarm is not available, gently al attention. er, occasionally lifting remains. Get medical nk fluids. Give large ting occurs, keep head		
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Disposal SECTION 3: Comp Methyl SECTION 4: Inhalation Skin  Eyes Ingestion Most imports symptoms/e Notes to Phy	composition onent chloride First Aid M  ant ffects sician Fire Fightin	easures  If breathe respiration of frostbite water (41-wrap affect wash eye upper and attention in the adto side in the add side in the adto side side in the adto side in the adto side in the adto side in the a	d in, move person. Consult a physical or freezing occurs of the parts in blank is immediately will lower lids, until mediately. It was an unconscite of water. DO NOT in hips to help produce. Get medical at ble.	EC-No.  200-817-4  In into fresh air. If not britian.  The standard of the sta	> 99.5 reathing, give artificial h plenty of lukewarm is not available, gently al attention. er, occasionally lifting remains. Get medical nk fluids. Give large ring occurs, keep head n is unconscious, turn		

**Explosion Limits** 

No data available

Media Flash Point

Auto ignition	632.0 °C	Upper	17.4 % (V)					
Temperature	032.0 C	Орреі	17.4 % (V)					
remperature		Lower	7 % (V)					
Hazardous Combustion	Not pertinent.	LOWEI	7 70 (V)					
Products	Not pertinent.							
	Carlana a sidaa Ubudua aa							
Specific Hazards Arising	Carbon oxides, Hydrogen	chioride gas						
from the Chemical								
		tability: 1 Ph	ysical hazards:					
SECTION 6: Accidental	1							
Personal Precautions	· · · · · · · · · · · · · · · · · · ·	• •	hing vapours, mist or gas.					
	· ·		ces of ignition. Evacuate					
	personnel to safe areas. I	•						
	form explosive concentra	•						
Environmental		or spillage it sate to do so	Do not let product enter					
precautions	drains.							
Methods and materials	Clean up promptly by swe	eeping or vacuum.						
for containment and								
cleaning up								
SECTION 7: Handling ar	nd Storage							
Handling	Avoid contact with skin a	nd eyes. Avoid inhalation	of vapour or mist.					
	Keep away from sources	of ignition - No smoking.	Take measures to prevent					
	the build-up of electrosta	tic charge.						
Storage	Store in cool place. Keep	container tightly closed i	n a dry and well-ventilated					
	place. Contents under pr	essure. Moisture sensitiv	e.					
SECTION 8: Exposure C	ontrols/Personal Prote	ction						
SECTION 8: Exposure Controls/Personal Protection								
-								
Exposure Guidelines:			ACGIH TWA					
Exposure Guidelines: Comp	onent	OSHA PEL	ACGIH TWA					
Exposure Guidelines: Comp Methyl	oonent chloride	OSHA PEL 100 ppm	50 ppm					
Exposure Guidelines: Comp	chloride  Use with adequate ventil	OSHA PEL 100 ppm ation. Local exhaust vent	50 ppm ilation is preferred,					
Exposure Guidelines: Comp Methyl	chloride Use with adequate ventil because it prevents Meth	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int	50 ppm ilation is preferred, to the work place by					
Exposure Guidelines: Comp Methyl	chloride  Use with adequate ventil because it prevents Metheliminating it at its source	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int	50 ppm ilation is preferred, to the work place by utomatic monitoring					
Exposure Guidelines: Comp Methyl	chloride Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int	50 ppm ilation is preferred, to the work place by utomatic monitoring					
Exposure Guidelines:  Comp  Methyl  Engineering Measures	chloride Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int	50 ppm ilation is preferred, to the work place by utomatic monitoring					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipment	chloride  Use with adequate ventil because it prevents Meth eliminating it at its source equipment to detect the and the level of oxygen.	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int e. If appropriate, install a presence of potentially e	50 ppm ilation is preferred, to the work place by utomatic monitoring xplosive air-gas mixtures					
Exposure Guidelines:  Comp  Methyl  Engineering Measures	chloride Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant saf	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int e. If appropriate, install a presence of potentially e	50 ppm ilation is preferred, to the work place by utomatic monitoring xplosive air-gas mixtures nield. Provide an					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipment	chloride Use with adequate ventil because it prevents Meth eliminating it at its source equipment to detect the and the level of oxygen.  ment Wear splash resistant saf emergency eye wash fou	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int e. If appropriate, install a presence of potentially e	50 ppm ilation is preferred, to the work place by utomatic monitoring xplosive air-gas mixtures nield. Provide an					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection	chloride Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safemergency eye wash fou work area.	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int e. If appropriate, install a presence of potentially e ety goggles with a face sh ntain and quick drench sh	ilation is preferred, to the work place by utomatic monitoring xplosive air-gas mixtures nield. Provide an hower in the immediate					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipment	chloride  Use with adequate ventil because it prevents Meth eliminating it at its source equipment to detect the and the level of oxygen.  ment  Wear splash resistant saf emergency eye wash fou work area.  Wear metatarsal shoes	OSHA PEL 100 ppm ation. Local exhaust vent yell Chloride dispersion interest. If appropriate, install a presence of potentially e ety goggles with a face sh ntain and quick drench sh	50 ppm ilation is preferred, to the work place by utomatic monitoring explosive air-gas mixtures nield. Provide an hower in the immediate					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection	chloride Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safe emergency eye wash fou work area.  Wear metatarsal shoes protective clothing where	OSHA PEL 100 ppm ation. Local exhaust vent yl Chloride dispersion int e. If appropriate, install a presence of potentially e ety goggles with a face sh ntain and quick drench sh and work gloves for e needed. Wear neopre	ilation is preferred, to the work place by utomatic monitoring xplosive air-gas mixtures  nield. Provide an nower in the immediate  cylinder handling, and the gloves during cylinder					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection  Skin and body protection	chloride  Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safemergency eye wash fou work area.  Wear metatarsal shoes protective clothing where change out or wherever the splash resistant safemergency eye wash fou work area.	OSHA PEL 100 ppm ation. Local exhaust vent yel Chloride dispersion into e. If appropriate, install a presence of potentially e ety goggles with a face sh ntain and quick drench sh and work gloves for e needed. Wear neopre	ilation is preferred, to the work place by utomatic monitoring explosive air-gas mixtures nield. Provide an nower in the immediate ene gloves during cylinder possible.					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection	chloride  Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safe emergency eye wash fou work area.  Wear metatarsal shoes protective clothing where change out or wherever and the level of oxygen.	OSHA PEL  100 ppm  ation. Local exhaust vent  yl Chloride dispersion into e. If appropriate, install a presence of potentially e  ety goggles with a face sh ntain and quick drench sh  and work gloves for e needed. Wear neopre contact with product is pot thing apparatus that ha	ilation is preferred, to the work place by utomatic monitoring xplosive air-gas mixtures  nield. Provide an nower in the immediate  cylinder handling, and the gloves during cylinder tossible. s a full face piece and is					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection  Skin and body protection	chloride  Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safemergency eye wash fou work area.  Wear metatarsal shoes protective clothing where change out or wherever and the self-contained bread operated in a pressure	OSHA PEL  100 ppm  ation. Local exhaust vent byl Chloride dispersion interested in the presence of potentially extended in the presence of potentially extended in the presence of potentially extended in and quick drench should be needed. Wear neopresentact with product is postable apparatus that hardemand or other postaliance.	ilation is preferred, to the work place by automatic monitoring explosive air-gas mixtures nield. Provide an anower in the immediate energious during cylinder possible.  Is a full face piece and is a fitive-pressure mode. Any					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection  Skin and body protection	chloride  Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safe emergency eye wash fou work area.  Wear metatarsal shoes protective clothing where change out or wherever of the appearance of the protection of the appearance of the appe	OSHA PEL  100 ppm  ation. Local exhaust vent byl Chloride dispersion interest in the presence of potentially expresence of potentially expression and quick drench should be needed. Wear neopresentact with product is possible apparatus that had demand or other possith a full face piece that	ilation is preferred, to the work place by utomatic monitoring xplosive air-gas mixtures  nield. Provide an nower in the immediate  cylinder handling, and ene gloves during cylinder essible. s a full face piece and is itive-pressure mode. Any is operated in a pressure-					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection  Skin and body protection	chloride  Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  The work area.  Wear splash resistant safe emergency eye wash fou work area.  Wear metatarsal shoes protective clothing where change out or wherever and the self-contained breat operated in a pressure supplied-air respirator with the supplied or other positive demand or other positive.	OSHA PEL  100 ppm  ation. Local exhaust vent byl Chloride dispersion interested in the presence of potentially extended in the pressure mode in comparison to the pres	ilation is preferred, to the work place by utomatic monitoring explosive air-gas mixtures nield. Provide an nower in the immediate exploses during cylinder possible.  Is a full face piece and is a fitive-pressure mode. Any is operated in a pressure-ubination with an auxiliary					
Exposure Guidelines:  Comp Methyl Engineering Measures  Personal Protective Equipm Eye/face Protection  Skin and body protection	chloride  Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safemergency eye wash fou work area.  Wear metatarsal shoes protective clothing where change out or wherever of Any self-contained breat operated in a pressure supplied-air respirator with demand or other positive self-contained breathing.	OSHA PEL 100 ppm ation. Local exhaust vent byl Chloride dispersion into e. If appropriate, install a presence of potentially e ety goggles with a face sh ntain and quick drench sh e needed. Wear neopre contact with product is pot thing apparatus that ha demand or other pos ith a full face piece that e pressure mode in com apparatus operated in pr	ilation is preferred, to the work place by utomatic monitoring explosive air-gas mixtures nield. Provide an nower in the immediate exploses during cylinder possible.  Is a full face piece and is a fitive-pressure mode. Any is operated in a pressure-ubination with an auxiliary					
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Exposure Guidelines:  Composition  Methyl Engineering Measures  Personal Protective Equipmed Eye/face Protection  Skin and body protection  Respiratory Protection  SECTION 9: Physical an	chloride  Use with adequate ventil because it prevents Metheliminating it at its source equipment to detect the and the level of oxygen.  Mear splash resistant safe emergency eye wash fou work area.  Wear metatarsal shoes protective clothing where change out or wherever of Any self-contained breat operated in a pressure supplied-air respirator with demand or other positive self-contained breathing or other positive-pressure of Chemical Properties	OSHA PEL  100 ppm  ation. Local exhaust vent by Chloride dispersion intended in the presence of potentially extended in the presence of potentially extended in the presence of potentially extended in the presence of potential in and quick drench should be needed. Wear neopresentact with product is possible and or other possible a full face piece that the pressure mode in comparatus operated in presence in presence.	ilation is preferred, to the work place by automatic monitoring explosive air-gas mixtures nield. Provide an anower in the immediate explosible.  To cylinder handling, and the gloves during cylinder possible.  To a full face piece and is stive-pressure mode. Any is operated in a pressure-abination with an auxiliary essure demand					
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			temperature					
pH		No data available	Viscosity	No data available				
•		-97 °C	Flammability (solid,	flammable				
		-97 C	gas)	Hammable				
point Initial boiling point and		-24.2 °C	Decomposition	No data available				
•		-24.2 C	temperature	NO data avallable				
boiling range Vapour pressure		3,796.0 mmHg @ 20.0 °C	Relative density	0.915 g/cm <sup>3</sup> @ 25 °C				
Vapour density		1.8 (air=1)	Oxidizing properties	No data available				
SECTION 10: Sta	hility a	,	Oxidizing properties	140 data avanabie				
Reactive Hazard	Dility a	-						
		No data available Stable under recommended storage conditions.						
Stability Conditions to Assoid		Heat, flames and sparks.	ied storage conditions.					
Conditions to Avoid		•	ron					
Incompatible Materials		Strong oxidizing agents, Iron						
Hazardous Decomposition		' '						
Products		oxides, Hydrogen chloride gas Other decomposition products - No data available						
Hazardous Dolumorization		·	ducts - No data avallable	•				
Hazardous Polymerization Hazardous Reactions		Will not polymerize.						
		May occur						
SECTION 11: Tox	cicologi		И -					
Acute toxicity		LD <sub>50</sub> Oral - Rat - 1,800 mg/kg						
Carcinogenicity		Limited evidence of a carcinogenic effect.						
SECTION 12: Eco								
		epomis macrochirus (Bluegill) - 550 mg/l - 96 h						
Other	No dat	a available						
SECTION 13: Dis	posal C	Considerations						
Waste treatment		Do not discharge effluent containing this product into lakes, streams, ponds,						
methods		estuaries, oceans, or other waters unless in accordance with the						
		requirements of a local regulations.						
Product		Burn in a chemical incinerator equipped with an afterburner and scrubber						
		highly flammable. Offer surplus and non-recyclable solutions to a licensed						
		disposal facility.						
Contaminated packaging		Dispose in accordance with all applicable regulations.						
SECTION 14: Tra	SECTION 14: Transport Information							
UN number		1063						
UN proper shipping name		METHYL CHLORIDE						
Transport hazard class		2.1						
Packaging group								
Environmental hazards		IMDG Marine pollutant: No						
SECTION 15: Regulatory Information								

## SECTION 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation.

## **SECTION 16: Other Information**

Disclaimer: The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.