

## MATERIAL SAFETY DATA SHEET

<b>Point no. 1</b> Chemical Product Synonyms Name of Manufacturing Company	Chemical product and company identification. <b>TRICHLOROMETHANE</b> <b>CHLOROFORM</b> Hwatsi Chemical Private limited.  Plot No. 586 & 587, Kandla Special Economic Zone, Kutch – 370230 Contact : +91 9869056097   +91 9167110151   022 24127112
<b>Point No. 2</b>	Composition, Information on ingredients CAS No. 67-66-3, Chloroform 100%
<b>Point No. 3</b>	Hazardous Identification Hazardous Waste :- I.D. No. 6, <b>Class No. 6.1</b> <b>U.N. No. 1888</b> , Hazarchem No. 2Z, NFPA Hazard signal Health – 2, <b>Flammability –0</b> , Reactivity – 0
<b>Point No. 4</b>	<b>First Aid Measure</b> 1. Routes of Entry:- Skin contact, Eye contact, ingestion, inhalation. 2. Effects Exposure:- Prolonged inhalation of high concentration may cause disorders. Eye contact causes pain & irritation symptoms prolonged contact cause irritation. Ingestion causes severe burning of mouth & throat, liver. 3. Emergency Treatment:- irrigate eyes with water. Wash contaminated areas of body soap & water. Treat burn as usual gastric with leavage (stomach wash). If swallowed, followed by saline catharsis.
<b>Point No. 5</b>	<b>Fire Fighting Measure</b> 1. Fire – Fire extinguishing - not flammable. Special procedures:- keep containers cool by spraying water if exposed to heat or flame. 2. Exposure:- Unusual Hazards :- Decomposes produces toxic gases.
<b>Point No. 6</b>	<b>Accidental Release Measures</b> 1 Spills:- antidotes/Dosages – not available steps to be taken :- shut of leaks of without risk absorb on earth or sand. 2 Waste Disposal Method:- Evacuate area disperse and flush, workers involved in clean up must use protection against skin contact.
<b>Point No. 7</b>	<b>Handling and storage</b> Transferring by hand using open bucket not recommended because spillage is almost unavoidable. Precautions:-Avoid physical contact use Personal Protective Equipments. Store in a cool, dry, well ventilated location, away form heat. A separate covered storage area should be provided for drums.
<b>Point No. 8</b>	<b>Exposure controls</b> TLV (ACGIH) 10 (SHC) ppm 50 (SHC)mg/m3 stel not listed Permissible :- 10 (SHC) ppm 50 (SHC)mg/m3 LD – 50 908mg/kg. (oral –rat) Personal Protective equipment:- PVC hand gloves, gas mask with canister, on line air breathing apratus, B.A. Set poly carbonate goggles, face shied, gum boots PVC apron.

<b>Point No. 9</b>	<b>Physical and Chemicals Properties</b> a) Physical State :- liquid b) Appearance :- colourless c) Odour :- Sweet and pleasant d) Solubility in water 0.8% at 250 C e) Vapour density 4.12 (air = 1) f) Boiling range/point 61.20C g) PH : Neutral h) Melting / freezing point 63.50C i) Vapour pressure, 152 mm Hg at 200C j) Specific gravity – water = 1 1.49 at 200C
<b>Point No. 10</b>	<b>Stability and Reactivity</b> Chemical Stability:- Yes, stabilizer is added before dispatch. Incompatibility:- Yes, strong alkalies, chemically active metals such as Al, Mg, Na, K. Reactivity:- Reacts violently with acetone + alkali, disilene, Al, Li, Mg. Hazardous reaction products:- when heated to decomposition, emits toxic fumes.
<b>Point No. 11</b>	<b>Toxicological information</b> Route of entry :- skin, contact, eye contact, inhalation, ingestion Effect of exposure:- Prolonged inhalation of high concentration may cause disorders. Eye contact causes pains and irritation. Ingestion causes severe burning & mouth and throat liver. Emergency Treatment:- Irrigate eyes with water. Wash contaminated areas of body with soap and water. Treat burn as usual gastric levage (stomach wash). If swallowed, followed by saline catharsis.
<b>Point No. 12</b>	<b>Ecological information</b> The majority of the environmental release from industrial uses are to the atmosphere, release to water and land will be primarily lost by evaporation and will end up in the atmosphere. Release t the atmosphere may be transported long distances and will photodegrede with a half-life of a few months. Spills and other releases on land will also leach into the ground water where it will reside for long periods of time. Environmental :- Chloroform will not be expected to bio-concentrate into the food chain but contamination of food is likely due to its use as on extractant and its presence in drinking water.
<b>Point No. 13</b>	<b>Disposal Consideration</b> Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Us EAP guidelines for the classification determination are listed in 40 CFR parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.



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<b>Point No. 14</b>	<b>Transport information :-</b> Formula CHCl <sub>3</sub> CAS NO. 67-66-3 U.N. No. 1888 Regulated shipping identification name:- Chloroform Hazchem No. 2 Z Code/Label - poison, Chloroform class 6.1 Hazardous Waste I.D. No. 6 Packing group III
<b>Point No. 15</b>	<b>Regulatory information :-</b> Hazardous ingredients :- Chloroform CAS No. 67-66-3
<b>Point No. 16</b>	<b>Other Information</b> Information contained in this material data sheet is believed to be reliable but no representation. Guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacture/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufacture handled or sold by him as the case may be. The Government makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.