



Material Safety Data Sheet
Bromoform-D

SECTION 1.1 – PRODUCT IDENTIFICATION

Product name	:	Bromoform-D
Molecular formula	:	C D Br₃
Molecular weight	:	253.75
CAS no.	:	2909-52-6

SECTION: 1.2 – COMPANY IDENTIFICATION

Company Name: Indenta Chemicals (India) Pvt. Ltd.
Address: 201, Adamji Building, 413, Narshi Natha Street, Mumbai -400 009. (India)
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SECTION 2: HAZARD IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word

Danger

Hazard Statements

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Toxic if inhaled

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Wear protective gloves/protective clothing/eye protection/face protection

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Tribromo(2H)methane	2909-52-6	100

SECTION 4: FIRST AID MEASURES

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Inhalation: Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion: Call a physician immediately. Clean mouth with water.

Most important symptoms/effects: No Information Available

Notes to Physician: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media: No information available.

Flash Point: No information available

Method - No information available.

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to mechanical impact: No information available.

Sensitivity to static discharge: No information available.

Specific Hazards Arising from the Chemical:

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products: Carbon monoxide (CO) Carbon dioxide (CO₂) Hydrogen halides

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA: Health 3; Flammability 0; Instability 1; Physical Hazards N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions: See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Do not let this chemical enter the environment.

SECTION 7: HANDLING AND STORAGE

Handling: Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only in area provided with appropriate exhaust ventilation. Keep containers dry and tightly closed to avoid moisture absorption and contamination

Storage: Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight. Do not store in metal containers. Keep under nitrogen. Keep away from oxidizing agents.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment:

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colourless
Odor	Sweet
Odor Threshold	No Information Available
pH	No Information Available
Melting Point/Range	8 °C / 46.4 °F
Boiling Point/Range	136.5 °C / 277.7 °F
Flash Point	No Information Available
Evaporation Rate	No Information Available
Flammability (solid,gas)	No Information Available
Flammability or explosive limits	
Upper	No Data Available
Lower	No Data Available
Vapor Pressure	4.4 mmHg @ 20 °C
Vapor Density	8.7
Relative Density	2.900
Solubility	No Information Available
Partition coefficient; n-octanol/water	No Data Available
Autoignition Temperature	No Information Available
Decomposition Temperature	No Information Available
Viscosity	No Information Available
Molecular Formula	CDBr3
Molecular weight	253.75

SECTION 10: STABILITY AND REACTIVITY

Reactive Hazard: None known, based on information available.

Stability: Stable under normal conditions. Hygroscopic. Light sensitive.

Conditions to Avoid: Excess heat. Exposure to light. Incompatible products. Exposure to moist air or water.

Incompatible Materials: Strong bases, Bases, Strong oxidizing agents, Metals

Hazardous Decomposition Products: Carbon monoxide (CO), Carbon dioxide (CO₂) Hydrogen Halides

Hazardous Polymerization: No information available.

Hazardous Reactions: None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information: No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic Products: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Irritation:** No information available**Sensitization:** No information available.**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Tribromo(2H)methane	2909-52-6	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

Mutagenic Effects: No Information Available**Reproductive Effects:** No information available.**Developmental Effects:** No information available**Teratogenicity:** No information available**STOT - single exposure:** None known.**STOT - repeated exposure:** None known**Aspiration hazard:** No information available.**Symptoms / effects, both acute and delayed:** No information available.**Endocrine Disruptor Information:** No information available**Other Adverse Effects:** The toxicological properties have not been fully investigated.**Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity:

Do not empty into drains.

Persistence and Degradability: Soluble in water, Persistence is unlikely, based on information available.**Bioaccumulation/ Accumulation:** No information available**Mobility:** No Information Available**Section 13: DISPOSAL CONSIDERATION****Waste Disposal Methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.**SECTION 14: TRANSPORT INFORMATION**

DOT: Not regulated**TDG:** Not regulated**IATA:**

UN-No 2515

Proper Shipping Name BROMOFORM

Hazard Class 6.1

Packing Group III

IMDG/IMO:

UN-No 2515

Proper Shipping Name BROMOFORM

Hazard Class 6.1

Packing Group III

15: OTHER REGULATORY INFORMATION**International Inventories:**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Tribromo(2H)methane	-	-	-	220-823-0	-		-	-	-	-	-

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations**TSCA 12(b)** Not applicable**SARA 313** Not applicable**SARA 311/312 Hazardous Categorization:****Acute Health Hazard** Yes**Chronic Health Hazard** No**Fire Hazard** No**Sudden Release of Pressure Hazard** No**Reactive Hazard** No**Clean Water Act** Not applicable**Clean Air Act** Not applicable**OSHA** Occupational Safety and Health Administration: Not applicable**CERCLA:** Not Applicable**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

State Right-to-Know: Not Applicable

U.S. Department of Transportation:

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico – Grade: No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class: D1A Very toxic materials

D2B Toxic materials

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

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