



## Material Safety Data Sheet

### Tetrabromomethane ( Tetra acetyl bromide)

#### SECTION 1.1 – PRODUCT IDENTIFICATION

Product Name	:	Tetrabromomethane
Molecular Formula	:	$\text{CBr}_4$
Molecular Weight	:	331.63 g/mol
CAS No.	:	558-13-4

#### SECTION: 1.2 – COMPANY IDENTIFICATION

**Company Name:** Indenta Chemicals (India) Pvt. Ltd.

**Address:** 117, The Summit Business Bay, Opp Cinemax, Off. Sir M.V. Road, Near WEH Metro Station, Andheri (E), Mumbai 400 093, India

**Telephone #:** +91-22-26849600

**Fax #:** +91-22-26849060

#### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight
Tetra acetyl bromide	558-13-4	100

**Toxicological Data on Ingredients:** Not available.

#### SECTION 3: HAZARD IDENTIFICATION

##### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

##### Label elements

##### Labelling according Regulation (EC) No 1272/2008

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard

Statements none

**Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

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## SECTION 5: FIRE AND EXPLOSION DATA

### Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen bromide gas

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

No data available

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**SECTION 7: HANDLING AND STORAGE**

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**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulate

**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

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**Control parameters****Exposure controls****Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal protective equipment****Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (Without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and The standard EN 374 derived from it.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air

respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Information on basic physical and chemical properties

- a) **Appearance Form:** clear, liquid Colour: colourless, light yellow
- b) **Odour** No data available
- c) **Odour Threshold** No data available
- d) **PH** No data available
- e) **Melting point/freezing point Melting point/range:** -1 - 1 °C - lit.
- f) **Initial boiling point and boiling range** 119 °C at 20 hPa - lit.
- g) **Flash point** No data available
- h) **Evaporation rate** No data available
- i) **Flammability (solid, gas)** No data available
- j) **Upper/lower flammability or** No data available explosive limits
- k) **Vapour pressure** 0.1 mmHg at 20 °C
- l) **Vapour density** 11.93 - (Air = 1.0)
- m) **Relative density** 2.967 g/cm<sup>3</sup> at 25 °C
- n) **Water solubility** No data available
- o) **Partition coefficient:** noctanol/water log Pow: 1.98
- p) **Auto-ignition temperature** No data available
- q) **Decomposition temperature** No data available
- r) **Viscosity** No data available
- s) **Explosive properties** No data available
- t) **Oxidizing properties** No data available

**SECTION 10: STABILITY AND REACTIVITY**

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**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong bases, Strong oxidizing agents, Chemically active metals, Aluminum, Magnesium, Zinc

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas

Other decomposition products - No data available

**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Information on toxicological effects**

**Acute toxicity**

LD50 Oral - Rat - 1,200 mg/kg (1,1,2,2-Tetrabromoethane)  
LC50 Inhalation - Rat - 4 h - 549 mg/m<sup>3</sup> (1,1,2,2-Tetrabromoethane)  
LD50 Dermal - Rat - 5,250 mg/kg (1,1,2,2-Tetrabromoethane)

**Skin corrosion/irritation**

Skin - Rabbit (1,1,2,2-Tetrabromoethane)

Result: Skin irritation - 24 h

**Serious eye damage/eye irritation**

Eyes - Rabbit (1,1,2,2-Tetrabromoethane)

Result: Mild eye irritation

Respiratory or skin sensitization

No data available (1,1,2,2-Tetrabromoethane)

**Germ cell mutagenicity**

Hamster (1,1,2,2-Tetrabromoethane) ovary

Sister chromatid exchange

**Carcinogenicity**

**IARC:** No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available (1,1,2,2-Tetrabromoethane)

**Specific target organ toxicity - single exposure**

No data available (1,1,2,2-Tetrabromoethane)

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available (1,1,2,2-Tetrabromoethane)

**Additional Information**

RTECS: KI8225000

Nausea, Dizziness, Headache, Anorexia, Cholestatic jaundice., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(1,1,2,2-Tetrabromoethane)

**SECTION 12: ECOLOGICAL INFORMATION**

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**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available (1,1,2,2-Tetrabromoethane)

**Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects**

Harmful to aquatic life with long lasting effects.

**SECTION 13: DISPOSAL CONSIDERATION**

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**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: TRANSPORT INFORMATION**

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**UN number**

ADR/RID: 2504

IMDG: 2504

IATA: 2504

**UN proper shipping name**

ADR/RID: TETRABROMOETHANE

IMDG: TETRABROMOETHANE

IATA: Tetrabromoethane

**Transport hazard class (es)**

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

**Packaging group**

ADR/RID: III

IMDG: III

IATA: III

**Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: yes

IATA: no

**Special precautions for user**

No data available

**SECTION 15: OTHER REGULATORY INFORMATION**

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**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical safety assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16: ADDITIONAL INFORMATION**

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