



COMPLETION 19.2™

SECTION-1. PRODUCT AND COMPANY IDENTIFICATION

Identification of Substances or Preparation

Brand Name : Completion 19.2™
Product Generic Name : ZINC BROMIDE/CALCIUM BROMIDE SOLUTION
(CaBr₂/ZnBr₂)
Synonyms : Zinc Bromide/Calcium Bromide Solution, Zinc Bromide/Calcium Bromide Brine
Chemical Family : Inorganic Salt Solution

Company Undertaking

Identification Chemcon Speciality Chemicals Pvt. Ltd. Block No-355, Manjusar-Kunpad Road, Village-Manjusar, Taluka: Savli Distt. Vadodara-391 775 INDIA

For information call: +91 2667 264103/4/5

SECTION-2. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Number	Wt. %	Ingredient Name
7789-41-5	19.5 %	Calcium Bromide
7699-45-8	54.5 %	Zinc Bromide
7732-18-5	26 %	Water

SECTION-3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER! CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. Do not get in eyes or on skin or clothing.

Avoid breathing airborne product.. Keep container closed. Use only with adequate ventilation.

Wash

thoroughly after handling.

This product is a/an Clear, colorless to amber liquid Dike and contain spills. Keep out of sewers and waterways.

ACUTE EFFECTS:

INHALATION: Irritating to the respiratory tract if inhaled.

INGESTION: May cause burns in mucous membranes, throat, oesophagus and stomach. May cause

gastric distress, nausea and vomiting if ingested.

SKIN: Corrosive to skin.

EYES: Corrosive to eyes.



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SECTION-3. HAZARDS IDENTIFICATION

CHRONIC EFFECTS:

CARCINOGENICITY:

IARC: Not listed. OSHA: Not regulated. NTP: Not listed.

ROUTE OF ENTRY:

Inhalation. Skin and/or eye contact.

TARGET ORGANS: Respiratory system, lungs. Skin. Eyes.

SECTION-4. FIRST AID MEASURES

GENERAL: Persons seeking medical attention should carry a copy of this MSDS with them.

INHALATION: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get medical attention.

INGESTION: Drink a couple of glasses water or milk. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

SKIN: Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

EYES: Promptly wash eyes with lots of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SECTION-5. FIRE FIGHTING MEASURES

AUTO IGNITION TEMP. (°F): N/D

FLAMMABILITY LIMIT - LOWER(%): N/D

FLAMMABILITY LIMIT - UPPER(%): N/D

EXTINGUISHING MEDIA:

Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Normal fire fighting techniques may be used.

UNUSUAL FIRE & EXPLOSION HAZARDS:

No unusual fire or explosion hazards noted.

HAZARDOUS COMBUSTION PRODUCTS:

Fire or high temperatures create: Bromine. and Bromides.



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SECTION-6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear proper personal protective equipment (see MSDS Section 8).

SPILL CLEAN-UP PROCEDURES:

Absorb in vermiculite, dry sand or earth and place into containers. Rinse area with water. Dike far ahead of larger spills for later disposal. Do not contaminate drainage or waterways.

SECTION-7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level.

Wear full protective clothing for prolonged exposure and/or high concentrations. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS:

Store at moderate temperatures in dry, well ventilated area. Keep in original container.

SECTION-8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.

Exposure Limits: Not Available.

Personal Protective Equipment (PPE)

Calcium Bromide Solution

Eyes: Wear safety glasses with side shields or safety goggles/shields.

Hands and Feet: Wear appropriate chemical protective gloves and boots.

Body: Wear appropriate protective (impervious) clothing.

Respiratory: A respirator is not indicated under normal operating conditions. Use of a respirator should be used based on contamination levels found in the area.

For Firefighting and Other Immediately Dangerous to Life or Health Conditions:

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus (SCBA) operated in pressure-demand or other positive-pressure mode.



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SECTION-9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Liquid.

COLOR: Colorless. to Amber.

ODOR: Odorless or no characteristic odor.

SOLUBILITY DESCRIPTION: Soluble in water.

BOILING POINT (°F, interval): 275 **PRESSURE:** 760mmHg

DENSITY/SPECIFIC GRAVITY (g/ml): 2.3 **TEMPERATURE** (°F): 68

BULK DENSITY: 19.2 lb/gal

VAPOR DENSITY (air=1): N/D

VAPOR PRESSURE: 17.5 mmHg **TEMPERATURE** (°F): 68

EVAPORATION RATE: N/D **REFERENCE:**

PH-VALUE, CONC. SOLUTION: 1-2

SECTION-10. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID:

Not relevant.

HAZARDOUS POLYMERIZATION:

Will not polymerize.

POLYMERIZATION DESCRIPTION:

Not relevant.

MATERIALS TO AVOID:

Strong oxidizing agents. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

No specific hazardous decomposition products noted.

SECTION-11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

No toxicological data is available for this product. Toxicological data for major component(s):

Component: Calcium bromide

TOXIC DOSE - LD 50: 4100 mg/kg (oral rat)

SECTION-12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

No ecological information is available for this product.



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SECTION-13. DISPOSAL INFORMATION

Observe all state and local regulations when disposing of this substance.

SECTION-14. DEPARTMENT OF TRANSPORTATION (DOT)/TRANSPORT INFORMATION

PROPER SHIPPING DESCRIPTION II: Corrosive liquids, n.o.s., 8, UN 1760, PG III, (contains zinc bromide and calcium bromide),

Marine Pollutant

EMERGENCY RESPONSE GUIDE No.: 154

U.S. DOT:

UN/NA No.: 1760

U.S. DOT HAZARD LABEL: CORROSIVE (Black/white diam.) DOT17

U.S. DOT CLASS: Class 8 - Corrosive Material

U.S. DOT PACKING GROUP: III

U.S. DOT PACKAGING INSTRUCTIONS: 49 CFR 173.154, 173.203, 173.241

CANADIAN TRANSPORT:

TDGR CLASS: Class 8 - Corrosives

TDGR LABEL: Corrosive

SEA TRANSPORT:

UN No. SEA: 1760

IMDG CLASS: Class 8 - Corrosives

IMDG PAGE No.: 8147

IMDG PACK GR.: III

EmS No.: 8-15

MFAG TABLE No.: 760, subsection 4.3 applies

MARINE POLLUTANT: Yes.

AIR TRANSPORT:

UN No., AIR: 1760

ICAO CLASS: Class - 8 Corrosives

AIR PACK GR.: III



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SECTION-15. REGULATORY INFORMATION

REGULATORY STATUS OF INGREDIENTS:

NAME:	CAS No:	TSCA:	CER- CLA:	SARA 302:	SARA 313:	DSL(CAN):
Zinc bromide	7699-45-8	Yes	Yes	No	No	Yes
Calcium bromide	7789-41-5	Yes	No	No	No	Yes
Water	7732-18-5	Yes	No	No	No	Yes

SECTION-16. OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Chemcon Speciality Chemicals reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local and or state regulations that may be pertinent in the storage, application and disposal of this product.