

A.M.T.S. MATERIAL SAFETY DATA SHEET

REVISED
11/5/2003

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS CODE
SSDCRBD

TRADE NAME
R.B.D. (Rapid Bone Decalcifier)

PRODUCT DESCRIPTION
Bone Decalcifier

SUPPLIER: AMERICAN MASTER*TECH SCIENTIFIC, INC.
P.O. BOX 2539
LODI, CA 95241-2539
(209) 368-4031

IN CASE OF EMERGENCY CONTACT INFOTRAC: 800-535-5053 (24 HOURS)

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

<u>NAME</u>	<u>CAS #</u>	<u>OSHA PELTW</u>	<u>OSHA STEL</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>
WATER	7732-18-5	N/E	N/E	N/E	N/E
HYDROCHLORIC ACID	7647-01-0	5 PPM	N/E	5 PPM	N/E

N/E = EXPOSURE LIMITS ARE NOT ESTABLISHED
C = THRESHOLD LEVEL VALUE, CEILING
PNOC = PARTICULATES NOT OTHERWISE CLASSIFIED

N/A = NOT AVAILABLE
ND = NUISANCE DUSTS
RD = RESPIRABLE DUSTS

A = ACTION LEVEL
S = SKIN CONTACT

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE / ODOR**

Brown liquid with suspended dark precipitate; mild acid odor.

SPECIFIC GRAVITY

1.045

SOLUBILITY IN WATER

Soluble

VAPOR DENSITY

Greater than 1

VAPOR PRESSURE

30 TORR.

EVAPORATION RATE

Less than 1

MELTING POINT

N/A

BOILING POINT

101° C

FLASH POINT

No flash point.

AUTO-IGNITION TEMP

N/A

LOWER EXPLOSIVE LIMIT IN AIR

N/A

UPPER EXPLOSIVE LIMIT IN AIR

N/A

SECTION 4: FIRE AND EXPLOSION INFORMATION**WATER SPRAY**

YES

CARBON DIOXIDE

YES

FOAM, ALCOHOL / CHEMICAL

CHEMICAL

DRY CHEMICAL

YES

OTHER

N/A

SPECIAL FIRE FIGHTING PROCEDURES

Wear appropriate personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.).
Product does not support combustion.

UNUSUAL FIRE / EXPLOSION HAZARDS

May emit acrid fumes under fire conditions.

SECTION 5: REACTIVITY AND STABILITY DATA**STABILITY**

Stable

INCOMPATIBLE MATERIALS

Hydrogen chloride and formaldehyde gases are reported to form bischloromethyl ether, a carcinogenic compound.

HAZARDOUS DECOMPOSITION PRODUCTS

None; material is stable for at least 5 years.

HAZARDOUS POLYMERIZATION

Will not occur.

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID

None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES AND DISPOSAL CONSIDERATIONS:**SPILL RESPONSE PROCEDURES**

Use appropriate personal protection equipment and standard laboratory procedures for cleanup. Wipe up small spills with absorbent paper and discard. Flush large spills to drain with copious amounts of water to dilute.

WASTE DISPOSAL PROCEDURE

Considered nonhazardous and biodegradable as received. Dispose spent material according to local, state, and federal regulations.

SECTION 7: HAZARDS IDENTIFICATION:**SYMPTOMS OF ACUTE OVEREXPOSURE****INHALATION**

May irritate respiratory system, with stinging, burning, coughing.

CONTACT WITH EYES

May irritate eyes, with stinging, watering, inflammation.

CONTACT WITH SKIN

May irritate skin, with itching, drying, inflammation.

INGESTION

May irritate gastrointestinal system, with nausea, vomiting, diarrhea.

SYMPTOMS AND HEALTH EFFECTS OF CHRONIC EXPOSURE**INHALATION**

Unknown.

EYE CONTACT

Unknown.

SKIN CONTACT

Unknown.

INGESTION

Unknown.

FIRST AID MEASURES:**EYE CONTACT**

Remove contact lenses if worn and flush eyes with copious amounts of water or buffered saline eye wash solution.
Get immediate medical attention.

SKIN CONTACT

Remove contaminated clothing and wash contact area thoroughly with mild soap and plenty of water.
Get medical attention if irritation develops.

INHALATION

Remove person to fresh air, keep at rest, and treat symptomatically.
If symptoms worsen, get medical attention.

INGESTION

Get immediate medical attention.

SECTION 7: HAZARDS IDENTIFICATION, continued**CARCINOGENICITY****NTP**

Not listed.

IARC

Not listed.

OSHA

Not listed.

CALIFORNIA PROPOSITION 65 WARNINGS

Not listed.

EPCRA SECTION 313 SUPPLIER NOTIFICATION

This product contains the following chemical, which is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act [EPCRA, formerly SARA] of 1986 (40 CFR 372):

Hydrochloric Acid; CAS Number 7647-01-0; Percent by Weight: Less than 10% (R.B.D. is a proprietary product.)

NOTE: This information must be included in all MSDS's that are copied and distributed for this material.

MEDICAL CONDITIONS AGGRAVATED BY PROLONGED EXPOSURE

Unknown.

SECTION 8: HANDLING INFORMATION / EXPOSURE CONTROLS**HMIS HAZARD CODES****HEALTH HAZARD**

1 Minimal: Use standard safety procedures.

FIRE HAZARD

0 Non-Flammable: No significant risk of fire or explosion.

REACTIVITY

0 Non-Reactive: Will not react with water or most inert chemicals.

EQUIPMENT

B Wear chemical apron, gloves, and splash goggles in addition to all standard laboratory safety equipment.

VENTILATION

Local Dilution Exhaust

PERSONAL HYGIENE

Wash hands thoroughly with soap and water before eating or drinking.

NOTICE TO READER: American Master*Tech Scientific Inc. believes the information contained in this Material Safety Data Sheet (MSDS) is current as of the Revision Date, but can not guarantee that the information is all inclusive. Any chemical may pose unknown hazards; if this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. User is responsible for determining appropriate methods of personal protection, handling, use, storage, and disposal of this product. User assumes all liability for any incidental or consequential damage resulting from the use of this product.