



CET, LLC.

MATERIAL SAFETY DATA SHEET
TrainSaf®-R-s Radiological Simulant

MSDS Ref. # 000108

Version: US/

Date Approved:

Revision No.: 00001

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: TrainSaf®-R-s Simulant (Radiological Simulant),
SYNONYM(s): Rad Sim

MANUFACTURER: CET, LLC.
13695 Rider Trail North
Earth City, Missouri 63045

Emergency Phone: 314-222-4640 (7:00am-4:30pm, CST)

2. COMPOSITION AND HAZARDOUS INGREDIENTS:

Chemical Name	CAS #	Range; Wt %
Silicon dioxide (amorphous)	7631-86-9	80-84 %
Zinc Sulfide	1314-83-31	8-10 %
Mineral oil	5020-83-5	8-10 %

3. PHYSICAL DATA:

ODOR: odorless
APPEARANCE: off white, granular solids
PARTICLE SIZE: 22-300 mesh
SOLUBILITY: Insoluble in water
SPECIFIC GRAVITY:
PERCENT VOLATILES: non volatile

4. HANDLING AND STORAGE

HANDLING: Store drums in upright position only.

STORAGE: Store in a low humidity environment.

VENTILATION: Provide mechanical local exhaust ventilation to prevent release of dust into the work area

5. SPILL AND LEAK PROCEDURES

-Proprietary-

© 2010 CET, LLC. All rights reserved. CET™ and TrainSaf® are trademarks/registered trademarks of CET, LLC.

Sweep up all residues and dispose as solid waste.

6. HAZARDS IDENTIFICATION

FIRST AID:

EYES: Immediately flush with water for at least 15 minutes, lifting upper and lower eyelids intermittently. Seek medical attention if sensitivity occurs.

SKIN: Remove contaminated clothing and thoroughly wash with soap and water. If irritation occurs and persists, contact a physician.

INHALATION: Remove to fresh air. If breathing discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration. See medical doctor immediately.

INGESTION: Rinse mouth with water.

FIRST AID NOTES: This product is not considered irritating to skin, eyes, and mucous membranes with extended contact. Remove materials from eyes using standard eye wash irrigation procedures.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: It is always good industrial hygiene practice to minimize unnecessary eye contact by wearing chemical safety glasses

RESPIRATORY None should be needed

PROTECTIVE CLOTHING: It is good industrial hygiene practice to minimize skin contact by wearing appropriate chemical resistant gloves and aprons.

7. FIRE FIGHTING MEASURES: None. Material does not support combustion.

PRODUCTS: HAZARDOUS DECOMPOSITION: None. Avoid contact with acids.

EYE EFFECTS: not considered an irritant

SKIN EFFECTS: Non-Irritant

8. CARCINOGENICITY: None.

9. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available for this product.

-Proprietary-

CHEMICAL FATE INFORMATION: Components of the above mixture, silicon dioxide and zinc sulfide that are generally recognized as safe (GRAS) .

10. TRANSPORT INFORMATION

Not regulated as hazardous goods by DOT, ADR, IMO or IATA

11. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**SARA TITLE III SECTION 302 \ not listed
SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):**

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIABILITY ACT)**

CERCLA REGULATORY (40 CFR 302.4):

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS (40 CFR 710): Listed

RCRA STATUS: Waste No.: NA

-Proprietary-

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

Hazard Classification: NA.
Ingredient Disclosure List: Listed

12. RATINGS:

	HMIS®	NFPA®
HEALTH:	1	1
FLAMMABILITY	0	0
PHYSICAL HAZARD	0	0
PERSONAL PROTECTION	H	

Key: 4= Severe; 3= Serious; 2= Moderate; 1= Slight; 0= Minimal; H= (Safety goggles, gloves, apron and a vapor respirator)

HMIS® is registered trademark of the National Paint and Coating Association.
NFPA® is a registered trademark of the National Fire Protection Association.

The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard and Canada’s Workplace Hazardous Materials Information System (WHMIS).

Clean Earth Technologies, LLC believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any process. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Further, since the conditions and methods of use are beyond the control of Clean Earth Technologies, LLC, Clean Earth Technologies, LLC expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

-Proprietary-

-Proprietary-

© 2010 CET, LLC. All rights reserved. CET™ and TrainSaf® are trademarks/registered trademarks of CET, LLC.