
SECTION 1 - IDENTIFICATION

PRODUCT IDENTIFIER..... RayCrete-A
CHEMICAL FAMILY..... Formulated Polyurethane Resin
COMPANY NAME..... Valiant Technologies, Inc., RayCrete Division
6005 Hughes St.
San Diego, CA 92115-6521

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	PEL (OSHA)	TWA-(ACGIH)	CAS NUMBER
may contain silica, quartz, crystalline < 0.02%	0.1 mg/M3	0.1 mg/M3	14808-60-7

As defined by OSHA Hazard Communication Standard 29CFR1910.1200.

Crystalline silica quartz dust has been identified as a carcinogen or probable carcinogen by IARC.

SECTION 3 - Physical/Chemical Characteristics

BOILING POINT (F) (C)	: ND	MELTING POINT (F)(C)	: ND
VAPOR PRESSURE (MM HG)	: ND	VOLATILE BY VOLUME	: Nil
VAPOR DENSITY (AIR=1)	: ND	EVAP. RATE (BUTYL ACETATE=1)	: NA
SOLUBILITY IN WATER	: Negligible	SPECIFIC GRAVITY (WATER=1)	: ~1
APPEARANCE & ODOR	: Pinkish paste, mild odor.		

SECTION 4 - Fire & Explosion Data

FLASH POINT (TEST METHOD) : >365 °F (PMCC) FLAMMABLE LIMITS: LEL:NA UEL: NA
: Nonflammable
EXTINGUISHING MEDIA : Foam, dry chemical, carbon dioxide, water spray.
SPECIAL FIRE FIGHTING PROCEDURES : Fire fighters should wear self-contained breathing apparatus.
UNUSUAL FIRE & EXPLOSION HAZARDS : None

SECTION 5 - Reactivity Data

STABILITY : Stable
CONDITIONS TO AVOID : Water contamination to protect product quality.
INCOMPATIBILITY : Strong bases, alcohols, metal compounds, hydrofluoric acid.
HAZARDOUS DECOMPOSITION PRODUCTS : Oxides of carbon and nitrogen, traces of hydrogen cyanide. Reacts with hydrofluoric acid to form toxic silicon tetrafluoride gas.
HAZARDOUS POLYMERIZATION : Will not occur.

SECTION 6 - Health Hazard Data

Routes Of Entry : Skin contact.

HEALTH HAZARDS/SIGNS OF OVEREXPOSURE

EYE CONTACT : May cause irritation.

SKIN CONTACT : May cause irritation on prolonged or repeated contact.

INHALATION : Unlikely unless heated or sprayed; vapors, when generated, can irritate the respiratory tract.

INGESTION : Effects are unknown.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT : Flush with water for 15 minutes; seek medical attention.

SKIN CONTACT : Remove with water; if redness or rash develops seek medical attention.

INHALATION : Remove to fresh air; if breathing is labored seek medical attention.

INGESTION : Do not induce vomiting unless instructed by a physician. Seek medical attention.

SECTION 7 - Precautions For Safe Handling & Use

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Dike and contain; absorb or scrape up excess into a container for disposal.

WASTE DISPOSAL METHOD:

This material contains a hazardous constituent as identified in RCRA Title 40 CFR261 Appendix VIII and must be disposed of in accordance with local, state, and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Avoid prolonged or repeated skin contact; use with adequate ventilation; reseal partial containers; use good general housekeeping procedures.

OTHER PRECAUTIONS:

When mixing with Part B follow precautions for handling isocyanates. Sanding of cured rigid urethanes creates dust which presents health, fire and explosion hazard. Urethane dust irritates the eyes, nose and respiratory tract and dust from partially cured urethanes can cause the same symptoms as overexposure to isocyanates. Do not inhale dust. Respiratory protection is required. Remove all ignition sources from areas where dust is present. Maintain clean work area by vacuuming up dust. Avoid clean-up methods that generate clouds, as explosive levels of urethane dust can be generated.

SECTION 8 - Control Measures

RESPIRATORY PROTECTION : Organic vapor respirator or self contained breathing apparatus suggested if heated or sprayed. Respiratory protection not required under normal conditions of use.

VENTILATION

LOCAL EXHAUST : Recommended to remove heated vapors.

MECHANICAL (GENERAL) : Recommended

PROTECTIVE GLOVES : Rubber or plastic.

EYE PROTECTION : Safety goggles

OTHER PROTECTIVE CLOTHING : Clean long leg, long sleeve clothing.

WORK/HYGIENE PRACTICES : Wash thoroughly before eating, smoking or applying make-up.

SECTION 9 - REGULATORY INFORMATION

FEDERAL REGULATIONS

DOT HAZARDOUS MATERIALS TRANSPORTATION 49CFR 172.101 OR OPTIONAL TABLE 172.102

HAZARD CLASS : NA

UN NUMBER : NA

PROPER SHIPPING NAME : NA

RESOURCE CONSERVATION AND RECOVERY ACT (40CFR261):

This material contains a hazardous constituent as identified in RCRA Title 40 CFR 261 Appendix VIII and must be disposed of in accordance with local, state and federal regulations.

CERCLA REQUIRES NOTIFICATION OF THE NATIONAL RESPONSE CENTER OF RELEASE OF QUANTITIES OF HAZARDOUS SUBSTANCES EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITIES (RQ'S) IN 40CFR302.4:

COMPONENTS THAT REQUIRE REPORTING RQ % OF REPORTABLE COMPONENT

None

SARA TITLE III REQUIRES EMERGENCY PLANNING BASED ON THRESHOLD PLANNING QUANTITIES (TPQ'S) AND RELEASE REPORTING BASED ON REPORTABLE QUANTITIES (RQ'S) IN 40CFR355 (USED FOR SARA 302, 304, 311 AND 312):

COMPONENTS THAT REQUIRE REPORTING TPQ RQ % OF REPORTABLE COMPONENT

None

SARA TITLE III SECTION 313 SUPPLIER NOTIFICATION:

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40CFR372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL:

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
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None

TSCA INVENTORY STATUS (40CFR710) : All components of this formulation are listed on the TSCA inventory.

STATE REGULATIONS

CALIFORNIA PROPOSITION 65:

This material contains a chemical which the State of California has found to cause cancer.

Date Prepared : 1/15/2004

Prepared By : Eric R. Nelson, Ph.D.

Title : Chief Technical Officer

Revision # : RC-01-A-0008

Abbreviations:

NE - Not Established

ND - Not Determined

NA - Not Applicable