

MATERIAL SAFETY DATA SHEET**SECTION 1 - PRODUCT IDENTIFICATION**

PRODUCT IDENTIFIER: **RadonSeal Efflorescence Cleaner**
 SUPPLIER: Novion Inc.
 ADDRESS: 18 L'Hermitage Drive, Shelton, CT 06484
 EMERGENCY TELEPHONE NUMBER: (203) 225-0366

CHEMICAL FAMILY: N/A Proprietary
 FORMULA: Proprietary mixture
 PRODUCT USE: Aqueous penetrating compounds for the removal of efflorescence, salt, lime stains from porous and non-porous cementitious or clay building materials.

SECTION 2 – INGREDIENTS/COMPOSITION

PRODUCTS/ CAS NUMBER(S)	ACGIH TLV		OSHA PEL		UNITS	APPROX. WGHT.%
	TWA	STEL	TWA	STEL		
NON HAZARDOUS						
TRADE SECRET EXPANSION AGENTS (MIXTURE)	FDA & FEMA "Generally Recognized as Safe"				%	< 7
68155-38-4	NE	NE	NE	NE	%	<2
112-90-3						
68554-67-6						
CYCLIC AMIDE	NE	NE	NE	NE	%	<20
872-50-4						
DEIONIZED WATER						
112-90-3	NE	NE	NE	NE	%	40 - 60
TRADE SECRET	NE	NE	NE	NE	%	<19
HAZARDOUS						
HYDROGEN PEROXIDE						
7722 – 84 – 1	(ACGIH TLV @ CONCENTRATION)		7.1 PPM, 10MG/M3, - 8 HR. TWA			
	(OSHA PEL @ CONCENTRATION)		7.1 PPM, 10MG/M3, - 8 HR. TWA			
HYDROGEN CHLORIDE SOLUTION						
7647 – 01 – 0	5 PPM		5PPM		PPM	<1

SECTION 3 – HAZARDS IDENTIFICATION**POTENTIAL HEALTH EFFECTS:**

INGESTION:

THIS MATERIAL IS A SIGNIFICANT HEALTH HAZARD IF INGESTED IN LARGE QUANTITIES. IRRITATION OF MUCOUS MEMBRANES OF THROAT, ESOPHAGUS AND STOMACH, WHICH MAY RESULT IN VOMITING, DIGESTIVE TRACT SHOCK, OR DEATH MAY OCCUR.

SKIN CONTACT:

MAY CAUSE MILD IRRITATION. SKIN CHAPPING MAY DEVELOP AFTER EXTREME REPEATED CONTACT,

INHALATION:

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INHALATION OF CONCENTRATED VAPORS CAN CAUSE MILD IRRITATION OF THE UPPER RESPIRATORY TRACT (NOSE, THROAT) POSSIBLE FOLLOWED BY CHEST DISCOMFORT, COUGH AND SHORTNESS OF BREATH

EYE CONTACT:

MAY CAUSE A MILD BURNING SENSATION/ IRRITATION TEARING, REDNESS AND SWELLING. PROLONGED UNTREATED CONTACT MAY CAUSE SEVERE BURNS AND OR PERMANENT DAMAGE.

MEDICAL CONDITIONS AGGRAVATED AS STATED ABOVE.

CHRONIC EFFECTS / CARCINOGENICITY:

INGREDIENTS PRESENT AT 0.1% OR MORE LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY OSHA, IARC, NTP OR ACGIH: NONE

MEDICAL LIMITATIONS:

RESTRICT CONTACT BY PERSONS WITH ACNE, SKIN SENSITIVITY OR SKIN DISEASES SINCE EXPOSURE COULD AGGRAVATE THESE CONDITIONS.

EFFECTS OF OVER EXPOSURE:

ACUTE: CENTRAL NERVOUS SYSTEM DEPRESSION WITH EXTREME EXPOSURE; EFFECTS MAY INCLUDE ANESTHESIA, COMA, RESPIRATORY ARREST. OXYGEN DEPRIVATION IS POSSIBLE IF WORKING IN A CONFINED NON VENTILATED AREA.

CHRONIC: NO KNOWN MAJOR CUMULATIVE OR LATENT EFFECTS HAVE BEEN REPORTED.

SECTION 4 – FIRST AID MEASURES**INGESTION:**

DO NOT INDUCE VOMITING. IF VOMITING OCCURS KEEP AIRWAY CLEAR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY. IF SWALLOWED IN LARGE AMOUNTS OXYGEN MAY BE RELEASED. THE DISTENTION OF THE STOMACH OR ESOPHAGUS MAY BE INJURIOUS. INSERTION OF A GASTRIC TUBE MAY BE ADVISABLE.

SKIN CONTACT:

FLUSH WITH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND FLUSH WITH WATER. SEEK MEDICAL ATTENTION IF SYMPTOMS ARISE.

INHALATION:

REMOVE TO FRESH AIR, RESTORE BREATHING IF NEEDED; SEEK MEDICAL HELP IF REQUIRED.

EYE CONTACT:

FLUSH EYES THOROUGHLY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.

NOTES TO PHYSICIAN:

GASTRIC LAVAL ONLY IF A LARGE QUANTITY HAS BEEN INGESTED. TREAT SYMPTOMATICALLY.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: (AQUEOUS SOLUTION)	NA	NA
METHOD: TCC		
AUTOIGNITION TEMP:	>285 °C	>513 °F

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% BY VOLUME UPPER N/A

% BY VOLUME LOWER N/A

SENSITIVITY TO MECHANICAL IMPACT: NO

SENSITIVITY TO STATIC DISCHARGE: NONE EXPECTED; MATERIAL HAS A FLASHPOINT ABOVE 200 °F.

EXTINGUISHING MEDIA:

FOAM, DRY CHEMICAL, CARBON DIOXIDE. WATER MAY BE INEFFECTIVE UNLESS USED IN FAVORABLE CONDITIONS BY TRAINED FIREFIGHTERS.

SPECIAL FIREFIGHTING PROCEDURES: NONE

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CONFINE AREA TO CLEANUP PERSONNEL. VENTILATE AREA AND WEAR PROTECTIVE GEAR AS REQUIRED, WIPE UP SPILL WITH AN INERT MATERIAL AND PLACE IN AN APPROVED NON-METALLIC CONTAINER FOR DISPOSAL. REMOVE SOURCES OF IGNITION. DISPOSE OF EXPENDED MATERIAL AND ABSORBENTS WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 7 – HANDLING AND STORAGE

- STORE IN A COOL, DRY LOCATION OUT OF DIRECT SUNLIGHT
- DO NOT ALLOW THE PRODUCT TO FREEZE
- STORE AWAY FROM ALKALINE PRODUCTS, METALS, SALTS, ORGANICS, AND REDUCING AGENTS
- KEEP ORIGINAL OR STORAGE CONTAINERS CLOSED WHEN NOT IN USE.
- AVOID BREATHING VAPORS.
- AVOID CONTACT WITH SKIN AND EYES.
- USE ONLY IN WELL VENTILATED AREAS.

SECTION 8 – PERSONAL PROTECTION/ EXPOSURE LIMITS

RESPIRATORY PROTECTION: USE IN WELL-VENTILATED AREA. USE APPROVED NIOSH RESPIRATOR IF TLV IS EXCEEDED.

GLOVES: CHEMICAL RESISTANT GLOVES

EYE AND FACE PROTECTION: SAFETY GLASSES OR GOGGLES

ENGINEERING: EXHAUST VENTILATION, SHOWERS, EYE WASH STATIONS

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

INITIAL BOILING POINT:	100 °C	212 °F
VAPOR PRESSURE (20 °C)	< 5	
VAPOR DENSITY: (AIR=1)	UNKNOWN	
MELTING POINT:	UNKNOWN	
FREEZING POINT:	0 °C	32 °F
APPEARANCE:	HAZY CLEAR LIQUID	

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ODOR:	SLIGHT AMINE / LEMON ODOR
EVAPORATION RATE (BuAc =1)	< 1
VOLATILE CHARACTERISTICS	NEGLIGIBLE
SPECIFIC GRAVITY (WATER = 1)	1.03
SOLUBILITY IN H2O AT 20 °C	COMPLETE

SECTION 10 – STABILITY AND REACTIVITY

STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
HAZARDOUS THERMAL DECOMPOSITION/ COMBUSTION PRODUCTS:	FUMES/ SMOKE/ CARBON MONOXIDE/ ALDEHYDES/ SILICON DIOXIDE/ FORMALDEHYDE/
INCOMPATIBILITY (MATERIALS TO AVOID):	STRONG OXIDANTS/ CONCENTRATED OXYGEN/ SODIUM HYPO CHLORITE/ CALCIUM HYPO CHLORITE.

CONDITIONS TO AVOID: KEEP AWAY FROM HEAT, SPARKS, AND FLAMES, AVOID ANY SOURCE OF IGNITION.
AVOID CONTACT WITH ACIDIC, BASIC, OR OXIDIZING AGENTS AND METALLIC CATALYSTS
LIKE TIN SOAPS AND NOBLE METALS.

SECTION 11 – TRANSPORT INFORMATION

DOT SHIPPING NAME:	AQUEOUS BIODEGRADABLE MASONRY CLEANER
DOT HAZARD CLASS:	N/A (Below Threshold quantity of 30 gallons)
PLACARDS:	N/A
DOT I.D. NUMBER:	N/A
REPORTABLE QUANTITY:	100 LBS.

SECTION 12 – REGULATORY INFORMATION

TSCA: THIS MATERIAL OR ITS COMPONENTS ARE LISTED ON THE TSCA INVENTORY LIST AND COMPLY WITH APPLICABLE RULES AS OF THIS WRITING.

SARA 302: NONE FOUND

SARA 311 & 312: NONE FOUND

SARE 313: THIS MATERIAL DOES NOT CONTAIN ANY INGREDIENTS ON THE LIST OF TOXIC CHEMICALS SUBJECT TO SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III), IN EXCESS OF THE APPLICABLE MINIMUM CONCENTRATIONS AS PER SECTION 372.38 (a).

HAZARD RATING SYSTEM:

MFPA No. 704, 1985 EDITION 1 HEALTH 0 FLAMMABILITY 2 REACTIVITY

HMIS 1 HEALTH 0 FLAMMABILITY 2 REACTIVITY

MATERIAL SAFETY DATA SHEET**SECTION 13 – ADDITIONAL INFORMATION**

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH CFR 1910. 1200. ALL INFORMATION, RECOMMENDATIONS AND SUGGESTIONS APPEARING HEREIN CONCERNING OUR PRODUCT(S) ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE, HOWEVER, IT IS THE USER'S SOLE RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THE PRODUCTS DESCRIBED HEREIN. SINCE THE ACTUAL USE OF THESE PRODUCTS IS BY OTHERS AND BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE BY NOVION AS TO THE EFFECTS OF SUCH USE, INCLUDING THE RESULTS TO BE OBTAINED OR THE SAFETY AND TOXICITY OF THE PRODUCTS NOR DOES NOVION ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THE PRODUCTS REFERRED TO HEREIN. NOR IS THE INFORMATION HEREIN TO BE CONSTRUED AS ABSOLUTELY COMPLETE SINCE ADDITIONAL INFORMATION MAY BE NECESSARY OR DESIRABLE WHEN PARTICULAR OR EXCEPTIONAL CONDITIONS OR CIRCUMSTANCES EXIST OR BECAUSE OF APPLICABLE LAWS OR GOVERNMENT REGULATION.

NA = NOT APPLICABLE
NE = NOT ESTABLISHABLE
NF = NONE FOUND