



# SAFETY DATA SHEET

# QUICK SEAL & ENHANCE

Last updated June 2018

## Product Identification

Product Name: NanoTech Coatings Quick Seal & Enhance

NFPA Est.		HMIS Est.	
Health:	2	Health:	2
Fire:	2	Fire:	3
React:	0	React:	0
Contact:	3	Contact:	3

## Composition

Ingredient	Concentration	C.A.S. Number	ACGIH TLV	OSHA PEL
Acetone	55-65%	67-64-1	500 ppm (TWA), 750 ppm (STEL)	
Trade Secret	8-12%	Proprietary	--	1000 PPM
Butyl Acetate	19-23%	540-88-5	200 ppm	200 PPM

## Chemical and Physical Properties

<b>Vapor pressure:</b>	400 mm HG @ 39.5° C	<b>Vapor Density:</b>	Heavier than air
<b>Solubility in Water:</b>	Miscible in all proportions	<b>Specific Gravity:</b>	0.79 @ 20° C / 4° C
<b>Boiling Point:</b>	56.5° C @ 760 mm Hg	<b>Appearance:</b>	clear, colorless volatile liquid
<b>Odor:</b>	Fragrant, mint-like	<b>V.O.C.</b>	<20 g/liter

## Flammability and Explosive Properties

**Flash Point:** closed cup: -16° C (2° F)

**Recommended Extinguishing Agents:** Dry chemical, alcohol foam or CO<sub>2</sub>. Water may be ineffective. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

**Unusual Fire and Explosion Hazards:** Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Closed containers may explode when exposed to extreme heat. This material may produce a floating fire hazard sensitive to static discharge.

**Special Fire Fighting Procedures:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

**Compressed Gasses:** None

**Pressure at Room Temp:** N.A.

## Reactivity Data

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Polymerization:** Will not occur

**Hazardous Decomp. Prod.:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Incompatibility:** Concentrated nitric and sulfuric acid mixtures, oxidizing materials, chloroform, alkalis, chlorine compounds, acids, potassium t-butoxide.

**Conditions to Avoid:** Heat, flames, ignition sources and incompatibles.





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## Spill or Leak Procedures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as a chemical waste in accordance with current local, state and federal regulations. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

## Storage and Handling Procedures

- Protect against physical damage.
- Store in a cool, dry well-ventilated location, away from any area with high risk of fire hazard.
- Outside or detached storage is preferred.
- Separate from incompatibles.
- Containers should be bonded and grounded for transfers to avoid static sparks.
- Storage and use areas should be No Smoking areas.
- Use non-sparking type tools and equipment, including explosion proof ventilation.
- Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.
- Keep container closed when not in use.
- Transfer only to approved containers with complete and appropriate labeling.
- Do not take internally. Keep out of the reach of children.

## Shipping Regulations

**DOT and IATA Hazard Classification:** Class 3 Flammable Liquid  
**Proper DOT Shipping Name:** Coatings Solution **Packing Group:** 2  
**Identification Number:** DOT - UN 1139 **IATA - UN 1139**

## Emergency Treatment Procedures

**Eye Irritation:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and shoes. Do not use organic solvents for cleanup as they may dry or irritate the skin and act as a carrier for chemical absorption.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.



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## Personal Protection

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

**Ventilation:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Respiratory:** If the exposure limit is exceeded and engineering controls are not feasible, a properly fitted half-face organic vapor respirator (approved by NIOSH/MSHA) may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin:** Avoid skin contact. Wear butyl-rubber gloves and impervious protective clothing.

**Eyes:** Do not wear contact lenses. Chemical safety goggles or splash shields are recommended.

## Health Hazard Data

**Potential Routes of Entry:** Skin, eyes, inhalation with vapor or spray mist.

**Symptoms of Overexposure:** Severe irritation, redness of eyes or skin. Coughing, dizziness, dullness, and headache (irritation of the upper respiratory system). Prolonged exposure to vapors can cause central nervous system depression, narcosis and unconsciousness.

**Aggravation of Pre-Existing Conditions:** Use of alcoholic beverages enhances toxic effects. Exposure may increase the toxic potential of chlorinated hydrocarbons, such as chloroform, trichloroethane.

## Toxicological Information

	Known	Anticipated	IARC
Acetone (67-64-1)	NO	NO	NO
Butyl Acetate (540-88-5)	NO	NO	NO

## Ecological Information

**Environmental Fate:** When released into the soil, this material is expected to readily biodegrade, leach into groundwater, or quickly evaporate. When released into water, this material is expected to readily biodegrade or quickly evaporate. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals, may be moderately degraded by photolysis, or be readily removed from the atmosphere by wet deposition.

**Environmental Toxicity:** This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.





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## Disposal

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## Regulatory Information

### Sara Supplier 313 Notification (40 CFR 372.65C):

CAS number	Chemical Compound
67-64-1	Acetone
540-88-5	Butyl Acetate

### STATE RIGHT-TO-KNOW

#### CALIFORNIA Proposition 65

This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

#### TSCA Certification

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

#### OTHER REGULATORY INFORMATION:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### ABBREVIATIONS:

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
NTP	National Testing Program
IARC	International Agency for Research on Cancer
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System
--	No Data / Not Available
N.A.	Not Applicable

## IMPORTANT LIABILITY DISCLAIMER

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct as it was obtained from sources we believe are reliable. However, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material, or the results to be obtained from the use thereof. User assumes all risks and liability of any use, processing or handling of any material, variations in methods, conditions and equipment used to store, handle or process the material and hazards connected with the use of the material are solely the responsibility of the user and remain at his sole discretion. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe work place, to examine all aspects of its operation and to determine if or where precautions, in addition to those described herein, are required.