

PENTRA-BARK® Surfactant

IN CASE OF EMERGENCY CONTACT:
U.S.: 785-542-2577

MATERIAL SAFETY DATA

1. PRODUCT IDENTIFICATION

Product Name	PENTRA-BARK
Synonyms	Polyalkyleneoxide modified heptamethyltrisiloxane
Chemical Family	Silicone-Polyether Copolymer
General Description	Silicone Based Surfactant

2. HAZARDOUS INGREDIENTS

OSHA REGULATED

COMPONENT	CAS. NO	WT%	EXPOSURE LIMITS
Polyalkyleneoxide modified heptamethyltrisiloxane	67674-67-3	30-60	

3. EFFECTS OF OVEREXPOSURE

IF IN EYES:	Severely irritating.
IF ON SKIN:	Slightly irritating. This material could increase dermatitis conditions.
IF INGESTED:	Not expected to cause adverse effects unless swallowed in large amounts.
IF INHALED:	Not expected to cause adverse conditions.

4. EMERGENCY FIRST AID

Call a poison control center or doctor immediately for treatment advice.

IF SWALLOWED:	Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.

5. REACTIVITY DATA

STABILITY:	Stable under normal conditions.
CONDITIONS TO AVOID:	None known.
MATERIALS TO AVOID:	None known.
POLYMERIZATION:	Will not occur.
DECOMPOSITION PRODUCTS:	Silicon dioxide, carbon dioxide, and traces of incompletely burned carbon products.

6. PHYSICAL PROPERTIES

APPEARANCE AND ODOR:	Clear to amber liquid. Slight polyether odor.
BOILING POINT:	760 mm Hg:>150° C (copolymer)
FREEZING POINT:	Not determined
PH:	7.4
SPECIFIC GRAVITY:	1.046
VAPOR PRESSURE:	At 20° C <1mm Hg
% VOLATILE (by weight %):	<1
EVAPORATION RATE (Ether=1):	<1
SOLUBILITY IN WATER:	Soluble

7. NFPA HAZARD RATING (National Fire Protection Association)

Flammability	Health:	Exposure could cause irritation but only minor residual injury even if no treatment is given.
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Health 1	0 Instability	Flammability: Materials that will not burn.
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Special Hazard	Instability:	Normally stable, even under fire exposure conditions, and are not reactive with water.

8. FIRE AND EXPLOSION HAZARD INFORMATION

FLASHPOINT:	240° F (PMCC)
FLAMMABLE LIMITS IN AIR:	Not determined
AUTOIGNITION TEMPERATURE:	Not determined
EXTINGUISHING MEDIA:	Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer, or ordinary) for large fires. Water stream may spread flames.
SPECIAL FIRE FIGHTING PROCEDURES:	Fire fighters should use self-contained breathing apparatus and full turnout gear. Prevent runoff of firewater. Avoid exposure to smoke.
UNUSUAL FIRE HAZARD:	Do not use water or foam directly on the fire.

9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:	Store in a cool, dry area away from sources of heat or ignition.
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10. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Not required under normal use conditions. If required, use NIOSH/MSHA approved respirator for organic vapors.
VENTILATION:	Local exhaust.
PROTECTIVE GLOVES:	Chemical resistant gloves.
EYE PROTECTION:	Safety glasses.
OTHER PROTECTION:	Chemical resistant coveralls or apron.
USER SAFETY RECOMMENDATIONS:	Safety showers and eyewash should be easily accessible.

11. SPILL OR LEAK PROCEDURES

SPILLS OR RELEASES: Dike the area using absorbent or materials such as sand or clay. Recover and contain as much product as possible using absorbent. Clean spill area using a solution of water and detergent. Collect and contain wash water and all contaminated absorbent for disposal. If spilled on the ground, the affected area should be excavated to a depth of 1 – 2 inches. Prevent the spilled product or washings from reaching public sewers or waterways. Wear appropriate protective equipment during the cleanup. Ensure that tools and equipment are adequately decontaminated.

WASTE & CONTAINER

DISPOSAL: Dispose of in accordance with Federal, State, and Local regulations.

CONTAINER DISPOSAL: Dispose of in an approved facility according to Federal, State and Local regulations.

12. REGULATORY INFORMATION

COMPOUNDS WHICH REQUIRE REPORTING UNDER SARA TITLE III

A. Sara regulated compounds	Section	CAS No.	Percent
Not Listed	302-304		
Not Applicable	312		
Not Listed	313		

The recommendation for safe handling and protection procedures are believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is releases as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without license. All data is offered for consideration, investigation and verification purposes only.



11712 230th St
Linwood, Kansas 66052
Phone 785-542-2577
Fax 785-542-2531