

SAFETY DATA SHEET

SDS# 1004

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: USP® NVB Base
CAS #: Mixture
Generic Name: Asphaltic Roll Roofing
Chemical Name: Asphalt Mixture (Article)
Chemical Family: N/A

Supplier Information:

U.S. PLY, INC.
 P.O. Box 163980
 Fort Worth, TX 76161
 (817) 413-0103
 Internet Website: www.usply.com
 Email: technical@usply.com

Emergency Telephone Number

Company Phone: (817) 413-0103
 Call Chemtrec Day or Night: 1-800-424-9300

Trade Name: USP® NVB Base

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed below are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When the products are handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements US Ply shall disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker safety training programs.

General:

Under normal use conditions, this product is not expected to create any unusual emergency hazards. Note: This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures.

Appearance and Odor:

Membrane sheet in roll form with mineral and sand surfaces. Asphalt odor.

Potential Health Hazards:

Primary Exposure Routes:

Primary: The primary hazard of this product is nuisance dust. However due to the large size of the particles, little exposure to airborne dust is expected.

This product contains a small amount of polyaromatic hydrocarbons which have been shown to cause cancer and respiratory damage in laboratory animals. Some asphalts and some asphalt solutions have produced skin cancer in laboratory animals. No association has been established between industrial exposure and cancer. (IRAC*, PART 4, VOLUME 35). Due to size of the particles, minimal exposure to airborne dust is expected.

Eye Contact: Not expected under normal conditions of use. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, get medical advice/attention.

Skin Contact: Not expected under normal conditions of use. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Ingestion: This product is not intended to be ingested. If ingested, it may cause irritation of the digestive system.

Inhalation: Not expected under normal conditions of use. Inhalation of excessive amounts of dust from the product may cause temporary upper respiratory irritation (scratchy throat), coughing and/or congestion in extreme exposures. Individuals affected should be moved to fresh air.

Medical Conditions Aggravated by Exposure:

Exposure to dust may aggravate pre-existing upper respiratory and lung diseases or conditions.

3. COMPOSITION / INFORMATION ON INGREDIENTS**Substance Mixture**

This product is an article.

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Common Name USP® NVB Base

GENERAL PRODUCT DESCRIPTION

USP NVB are mineral surfaced on both sides, asphalt coated, fiberglass reinforced membranes for use in built-up roofing. USP NVB has mineral granules on the underside and a mineral parting agent (Coal Slag) on the top surface.

Chemical Name	CAS #	Weight - %	Trade Secret
Asphalt	64742-93-4	30-40	*
Calcium Carbonate	1317-65-3	10-30	*
Mineral Granules (Nepheline Syenite)	n/a	39-52	*
Coal Slag	n/a	7-13	*
Fiberglass Mat or Filament glass fiber	n/a	2-4	*
Talc (containing no asbestos fibers)	14807-96-6	0-1	*

There are no additional ingredients present which, within the current knowledge of the supplier and/or in the concentrations applicable, are classified as hazardous to the health or environment and would hence require reporting in this section.

4. FIRST AID MEASURES**Description of first aid measures**

General Advice	During installation, this product may release dust or fumes. Due to the large size of the particles, minimal exposure to airborne dust is expected. Primarily a nuisance dust. Asphalt and its fumes can irritate the skin, eyes and upper respiratory tract. If dust or fumes are inhaled to excess (e.g. in a confined work space) irritation of the upper respiratory tract may occur. See Section 11 for more details.
Eye Contact	Do not rub or scratch eyes. Dust particles may cause the eye to be scratched. Bathe eye immediately with a large amount of water for at least 15 minutes. If irritation persists, seek medical attention immediately.
Skin Contact	Wash gently with soap and warm water to remove dust and fibers. For molten asphalt contact, cool with ice or water. Do not attempt to remove asphalt immediately. Cover with petroleum jelly (Vaseline). Remove the asphalt has softened. If irritation develops, use a delicate cream. If symptoms persist, in case of redness or blistering seek medical attention for burn treatment.
Inhalation	If breathing difficulty is experienced, move to a fresh air place. Drink water to clear throat and blow nose to remove dust. If difficulty persists,* seek medical attention.
Ingestion	This product is not intended to be ingested. If ingested, it may cause temporary irritation to the digestive system. Rinse mouth with water to remove fibers, and drink plenty of water to help reduce the irritation.
Self-protection of the first aider	First aider: Pay attention to self-protection!

Most important symptoms and effects, both acute and delayed

Symptoms Upper respiratory passages, skin and eyes are primary exposure routes. As with any dust, pre-existing upper respiratory and lung diseases or conditions that may be aggravated.

Indication of any immediate medical attention and special treatment needed

Note to Physicians Treat symptomatically.

5. FIRE FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, dry powder, CO₂, foam.

Unsuitable extinguishing media Avoid use of straight water spray.

Specific hazards arising from the chemical

Not applicable

Hazardous combustion products Carbon dioxide and carbon monoxide.

Explosion data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not Sensitive

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Firefighting equipment/instructions

No special procedures are expected to be necessary for this product. Normal firefighting procedures should be followed such as standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions N/A

Environmental precautions

Environmental precautions Pick up large pieces of material. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation. These procedures will help to minimize potential exposures.

Methods and material for containment and cleaning up

Methods for cleaning up This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conversation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact the local Public Health Department, or the local office of the EPA.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material. Avoid direct exposure to very high heat or flame.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store standing upright on end. Material should be kept dry, and protected from the elements. Recommended storage temperature is between 55°F to 95°F (12.7°C to 35°C). Warehouse storage should be in accordance with package directions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines

Read all product instructions before using. No ACGIH or OSHA PEL is assigned to this mixture.

- Exposure limits for the component materials are shown below.
- This product, as supplied, is not believed to contain any hazardous material that exceeds exposure limits established by OSHA.

Chemical Name		ACGIH TLV	OSHA PEL
Asphalt (CAS 8-52-42-4)		TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-
Calcium Carbonate (CAS 1317-65-3)		Total Dust: 10 mg/m ³ TWA Respirable Dust: 5 mg/m ³ TWA	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction
Talc (containing no asbestos) (CAS 14807-96-6)		2 mg/m ³ TWA (Particulate matter containing no asbestos and <1% crystalline)	Respirable Dust: (Less than 1% crystalline silica) 2 mg/m ³ TWA ('Silicates')
Mineral Granules (may include the following):	Crystalline silica (quartz) (CAS 14808-60-7)	TWA: 0.025 mg/m ³ respirable fraction	(vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction
	Titanium Dioxide (CAS 13463-67-7)	15 mg/m ³ TWA (total dust) 10 mg/m ³ TWA (total dust)	10 mg/m ³ TWA
	Iron oxide	Respirable fraction: 5 mg/m ³ TWA	10 mg/m ³ TWA (as fume) 15 mg/m ³ TWA (total dust)
	Chromium (III) Compounds	-	As Cr, 0.5 mg/m ³ TWA
	Chromium, insoluble salts	-	As Cr, 1 mg/m ³ TWA
Coal Slag (may include the following):	Iron Oxide (1309-37-1)	Respirable fraction: 5 mg/m ³ TWA	10 mg/m ³ TWA (as fume) 15 mg/m ³ TWA (total dust)
	Silicon Dioxide (7631-86-9)	10 mg/m ³ TWA	15 mg/m ³ TWA (total dust) 10 mg/m ³ TWA (as fume)
	Calcium Oxide (1305-78-8)	-	20 mppcf TWA; (80)/(% SiO ₂) mg/m ³ TWA
	Aluminum Oxide (1344-28-1)	15 mg/m ³ TWA (Total Dust) 5 mg/m ³ TWA (Respirable fraction)	-

See Section 11 – Toxicological Information for component carcinogenicity.

Appropriate engineering controls

Engineering Controls

No special ventilation systems are required when using this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Leather or cotton gloves are recommended. Loose fitting, long-sleeved shirt and long pants and cap should be worn to protect skin from irritation dust. Construction grade work shoes are recommended.
Respiratory protection	Not required unless used with asphalt or coal tar mastics. In those cases, follow the specific precautions for the material being used.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Solid	Odor	Asphaltic odor
Appearance	Various colors and surfaces. Thin black asphaltic roll roofing	Odor threshold	Not available
Color	Dark mat with black minerals and granules		

Property	Values	Remarks + Methods
pH	Not established	
Melting point/freezing point	None / > 200 °F	
Boiling point / boiling range	Not established	
Flash point	> 299 °C / 570 °F	
Evaporation rate	Not established	
Flammability (solid, gas)	Not established	
Flammability Limit in Air	Not established	
Upper flammability limit:	Not established	
Lower flammability limit:	Not established	
Vapor pressure	Not established	
Vapor density	Not established	
Specific Gravity	Not established	
Solubility in other solvents	Insoluble	
Partition coefficient	Not established	
Autoignition temperature	> 460 °C / 860 °F	
Decomposition temperature	Not established	
Kinematic viscosity	Not established	
Dynamic viscosity	Not established	
Explosive properties	Not established	
Oxidizing properties	Not established	

Other Information

Softening point	Not established
Molecular weight	Not established
VOC Content (%)	Not established
Density	Not established
Bulk density	Not established

10. STABILITY AND REACTIVITY**Reactivity**

The product is a stable material. This product is not reactive.

Chemical Stability

The product is a stable material. This product is not reactive.

Possible hazardous reactions

None under normal use

Hazardous polymerization	Will not occur
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Conditions to avoid

Avoid heat, open flames and sparks.

Incompatible materials

This product will react with strong oxidizing agents, reducing agents, strong acids and alkalis.

Hazardous decomposition Products

Decomposition from this material are those that would be expected from any organic (carbon-containing) material. These decomposition products may include oxides of carbon (carbon dioxide, carbon monoxide, carbon particles, and hydrocarbons) are derived from burning.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Dust from this product is an irritant and may cause irritation or scratchiness of the throat, and/or itching in the eyes and skin.

<i>NTP (National Toxicology Program)</i>		<i>OSHA (Occupational Safety and health Administration of the US Department of Labor)</i>	
<i>Known</i>	<i>Known Carcinogen</i>	<i>X</i>	<i>Present</i>
<i>Reasonably Anticipated</i>	<i>Reasonably Anticipated to be a Human Carcinogen</i>		

Reproductive toxicity: Based on available data, the classification criteria are not met.
 Developmental Toxicity None Known
 Teratogenicity None Known.
 STOT – Single exposure: No information available
 STOT – Repeated exposure: No information available
 Aspiration hazard: No information available

Numerical measures of toxicity - No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity
 No information available.

Persistence and degradability
 No information available.

Bioaccumulation potential
 No information available.

Chemical Name	Partition coefficient
Asphalt (at Ambient Temperature) – 8052-42-4	> 6

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Water treatment methods

Disposal of waste This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conversation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact the local Public Health Department, or the local office of the EPA.

Contaminated packaging Not applicable

14. TRANSPORTATION INFORMATION

- DOT** Not regulated
- TDG** Not regulated
- MEX** Not regulated
- ICAO (air)** Not regulated
- IATA** Not regulated
- IMDG** Not regulated
- RID** Not applicable in the United States.
- ADR** Not applicable in the United States.
- ADN** Not applicable in the United States.

15. REGULATORY INFORMATION

International Inventories

TSCA All of the components of this product are listed on the US TSCA (Tocix Substances Control Act) Inventory or are exempt.
DSL/NDSL All of the components of this product are listed on the DSL.

- Legend**
- TSCA** United States Toxic Substances Control Act Section 8(b) Inventory
 - DSL/NDSL** Canadian Domestic Substances List/Non-Domestic Substances List
 - EINECS/ELINCS** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 - ENCS** Japan Existing and New Chemical Substances
 - IECSC** China Inventory of Existing Chemical Substances
 - KECL** Korean Existing and Evaluated Chemical Substances

US Federal Regulations

There is no regulation on this product as a whole.

SARA Title III:

None of the products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

SARA 313:

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR.122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

This product contains the following Proposition 65 chemicals.

This product contains chemicals (small amounts of some polynuclear aromatic hydrocarbons) known to the State of California to cause cancer.

Chemical Name	California Proposition 65
Quartz – 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations

Chemical Name	CA	FL	MA	MN	NJ	PA
Asphalt (CAS 8052-42-4)	YES	NO	YES	YES	YES	YES
Quartz (CAS 14808-60-7)	YES	NO	YES	YES	YES	YES
Continuous filament glass fibers (CAS 65997-17-3)	NO	NO	NO	YES	NO	NO
Titanium Dioxide (CAS 13463-67-7)	NO	NO	YES	YES	YES	YES
Talc (CAS 14807-96-6)	YES	NO	YES	YES	YES	YES

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health Hazard	1	Flammability	1	Instability	0	Physical and Chemical Properties	-
HMIS	Health Hazard	1	Flammability	1	Physical Hazards	0	Personal Protection	-
<i>Chronic Hazard Star Legend</i>		* = Chronic Health Hazard						

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End of Safety Data Sheet