NanoCure®

# SAFETY DATA SHEET

## SECTION 1. PRODUCT & COMPANY IDENTIFICATION

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|---|---|
| Product Name: | NanoCure® Sound Barrier (Solvent Based) |
| Product No.: | SBNC |
| Manufacturer: | NanoCure Protective Coatings, Inc. |
| Address: | 5100 N. O' Connor Blvd, Suite 200<br>Irving, TX 75039 |
| Telephone: | (888) 268-2832 |
| **24Hr Emergency Contact:** | **VelocityEHS**<br>**(800) 255-3924** |

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

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| Carcinogenicity: | Category 1A |
| Specific target organ toxicity (single exposure): | Category 3 |
| Specific target organ toxicity (repeated exposure): | Category 1 |
| Aspiration Toxicity: | Category 1 |
| Flammable Liquids: | Category 3 |

### GHS Label Element

**Hazard Pictograms:**

Respiratory tract irritant. Skin and Eye irritant.

Skin and Eye irritant.

May intensify fire, oxidizer.

**Signal Word:** Danger

### Hazard Statements

May cause cancer. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Flammable liquid and vapor.

### Precautionary Statements

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| Prevention: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed when product is not in use. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Keep cool. |
| Response: | If exposed or concerned: Get medical advice/attention.<br>If on skin (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.<br>If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>If swallowed: Immediately call a Poison Center or doctor/physician. Do NOT induce vomiting.<br>In case of fire: use $CO_2$, dry chemical, or foam for extinction. |
| Storage: | Store locked up in a well-ventilated place. Keep container tightly closed. |
| Disposal: | Dispose of contents/container to an approved waste disposal plant. |
| Hazards Not Otherwise Classified (HNOC): | Not Applicable |
| Other Information: | May be harmful if swallowed.<br>May be harmful in contact with skin |
| Unknown Acute Toxicity: | No information available. |

## SECTION 3. HAZARDS COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient Name | CAS No. | Percent* |
|---|---|---|
| Asphalt (at Ambient Temperature) | 8052-42-4 | 50 – 60% |
| Mineral Spirits (with < 0.1% Benzene) | 8052-41-3 | 30 – 40% |
| Hydrated Aluminum-Magnesium Silicate (Attapulgite) | 12174-11-7 | 0 – 10% |
| Alkyl Amine Acetate | 28701-67-9 | 0 - 10% |
| Nonane | 111-84-2 | 0 - 10% |
| QUARTZ | 14808-60-7 | 0 - 10% |

***(*Exact % withheld as trade secret)***

## SECTION 4. FIRST AID MEASURES

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| General Advice: | Contains petroleum distillate. Harmful or fatal if swallowed. Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. |
| Inhalation: | Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with breathing is experienced, get medical attention immediately. |
| Skin Contact: | Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician. |

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| Eye Contact: | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| Ingestion: | Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately. |
| Self-Protection of the First Aid Provider: | First aider: Pay attention to self-protection! |
| Symptoms: | May cause skin irritation. May cause eye irritation. |
| Note to Physicians: | Treat symptomatically. |

## SECTION 5. FIREFIGHTING MEASURES

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| Suitable Extinguishing Media: | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO2). Sand. Use foam or water FOG as a last resort. |
| Unsuitable Extinguishing Media: | Do not use a solid water stream as it may scatter and spread fire. |
| Specific Hazards Arising from the Chemical: | No information available. |
| Hazardous combustion products | Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes. |
| Explosion Data: | Sensitivity to Mechanical Impact: None. Sensitivity to Static Discharge: May be ignited by heat, sparks or flames. |
| Protective Equipment and Precautions for Fire-fighters: | As in any fire, wear self-contained breathing apparatus pressure -demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Methods and Materials for Containment and Cleaning Up: | Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite. Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13). Clean contaminated objects and areas thoroughly observing environmental regulations. |
| Personal Precautions and Other Information: | Only trained personnel should deal with spillages. Use personal protective equipment as required. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). |
| For Emergency Responders | Use personal protection recommended in Section 8. |
| Environmental Precautions: | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. |

## SECTION 7. HANDLING AND STORAGE

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| Advice on Safe Handling: | Use personal protective equipment as required. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas Use spark-proof tools and explosion-proof equipment. |
| Conditions for Safe Storage: | Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. |
| Incompatible Materials: | Strong acids. Strong oxidizing agents. |

## SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Control Parameters (Ingredients with workplace Exposure parameters)**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Asphalt (at Ambient Temperature) 8052-42-4 | TWA: 0.5 mg/m³ benzene-soluble aerosol fume, inhalable particulate matter | – | Ceiling: 5 mg/m³ fume 15 min |
| Mineral Spirits (with < 0.1% Benzene) 8052-41-3 | TWA: 100 ppm | TWA: 500 ppm TWA: 2900 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m³ | IDLH: 20000 mg/m³ Ceiling: 1800 mg/m³ 15 min TWA: 350 mg/m³ |
| Hydrated Aluminum-Magnesium Silicate (Attapulgite) 12174-11-7 | TWA: 1 mg/m³ respirable particulate matter | – | – |
| Nonane 111-84-2 | TWA: 200 ppm | (vacated) TWA: 200 ppm (vacated) TWA: 1050 mg/m³ | TWA: 200 ppm TWA: 1050 mg/m³ |
| QUARTZ 14808-60-7 | TWA: 0.025 mg/m³ respirable particulate matter | TWA: 50 µg/m³ TWA: 50 µg/m³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m³ respirable dust: (250)/(%SiO2 + 5) mppcf TWA respirable fraction: (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction | IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust |

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| Engineering Controls: | Use natural cross ventilation, local (mechanical) pick-up, and/or general area mechanical cross ventilation. Ventilation pattern should be designed to prevent accumulation of vapors. Ventilation must be sufficient to maintain vapor concentrations below the TWA limits outlined above. |
| Eye/Face Protection: | Wear safety glasses with side shields (or goggles). |
| Skin and Body Protection: | Wear protective gloves and protective clothing that is resistant to chemical penetration. |

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| Respiratory Protection: | Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate. Provide adequate ventilation. |
| General Hygiene Considerations: | Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State: | Liquid |
| Appearance: | Black Viscous Liquid |
| Color: | Black |
| Odor / Odor Threshold: | Solvent (Mineral Spirits) / No information available |
| pH: | No information available |
| Freezing Point: | No information available |
| Boiling Point: | No information available |
| Flash Point: | > 40.5 °C / > 105 °F (Setaflash) |
| Evaporation Rate: | No information available |
| Flammability Limit in Air | No information available |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor Pressure (mmHg): | .62 mmHg @ 20 °C |
| Vapor Density (Air=1): | Not available |
| Specific Gravity: | 0.97 |
| Solubility in Water: | Insoluble |
| Solubility in other solvents: | Soluble in aromatic and aliphatic solvents |
| Partition Coefficient: | No information available |
| Autoignition Temperature: | No information available |
| Decomposition Temperature: | No information available |
| Kinematic / Dynamic Viscosity: | No information available |
| Explosive Properties: | Vapor accumulation could flash or explode if ignited. |
| Oxidizing Properties: | None |
| Softening Point: | No information available |
| Molecular Weigth: | No information available |
| VOC Content (%): | No information available |
| Density / Bulk Density: | 7.9 to 8.3 lb/gal / No information available |

## SECTION 10. STABILITY AND REACTIVITY

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| Chemical Stability: | NanoCure® Sound Barrier is a stable product at room temperature. |
| Reactivity: | None under normal use |
| Conditions to Avoid: | Avoid static discharge. Avoid heat, sparks, and open flame. |
| Materials to Avoid: | Strong acids. Strong oxidizing agents |
| Hazardous Decomposition: | Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants |
| Hazardous Polymerization: | Will not occur |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Primary Routes of Entry**

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| Inhalation: | Avoid breathing vapors or mists. |
| Ingestion: | If swallowed, do not induce vomiting. Get medical attention immediately. Not an expected route of exposure. |
| Skin: | May cause irritation. |
| Eyes: | Avoid contact with eyes. Contact with eyes may cause irritation. |
| Component Information: | The IARC Monograph (Vol. 103, 2013, Bitumen and Bitumen Emissions) defines Asphalt as 'Group 2B, Possible Carcinogen to Humans'. This definition is based on studies of exposure to Asphalt fumes at elevated temperatures. The Monograph states that temperature plays an important role in determining the degree of exposure and also the carcinogenic potential of bitumen emissions. This same Monograph states that Asphalt is nonvolatile at ambient temperature. There is no data presented in the Monograph to demonstrate that Asphalt at ambient temperature is considered a carcinogen. Since the normal use of this product is at ambient temperature, the Asphalt used in this product is not listed as a carcinogen. No other national or international agency has defined Asphalt as a carcinoge. |

| Chemical Name | Oral LD50 | Dermal LD50 | OSHA |
|---|---|---|---|
| Asphalt (at Ambient Temperature) 8052-42-4 | > 5000 mg/kg(Rat) | > 2000 mg/kg (Rabbit) | = 124.7 mg/L (Rat) 4h |
| Alkyl Amine Acetate 28701-67-9 | = 1216 mg/kg (Rat) | - | - |
| Nonane 111-84-2 | - | - | = 3200 ppm (Rat) 4 h |

**Information on Toxicological Effects**

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| Symptoms: | Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |

**Delayed/Immediate/Chronic effects from short/long-term exposure**

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| Skin corrosion/irritation: | Can cause skin irritation |
| Serious eye damage/ eye irritation: | Irritating to eyes. |
| Irritation: | Irritating to eyes, respiratory system and skin. |
| Corrosivity: | Not classified. |
| Sensitization: | May cause sensitization of susceptible persons. |

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| Germ cell mutagenicity: | This product does not contain any ingredients that cause germ cell mutagenicity. |
| Carcinogenicity: | The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen. |

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Hydrated Aluminum-Magnesium Silicate (Attapulgite) 12174-11-7 | - | Group 2B | - | X |
| QUARTZ 14808-60-7 | A2 | Group 1 | Known | X |

**Legend**

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|---|---|
| ACGIH (American Conference of Governmental Industrial Hygienists): | A1 - Known Human Carcinogen<br>A2 - Suspected Human Carcinogen<br>A3 - Animal Carcinogen<br>A4 - Not Classifiable as a Human Carcinogen |
| IARC (International Agency for Research on Cancer): | Group 1 - Carcinogenic to Humans<br>Group 2A - Probably Carcinogenic to Humans<br>Group 2B - Possibly Carcinogenic to Humans<br>Group 3 - Not classifiable as a human carcinogen. |
| NTP (National Toxicology Program): | Known - Known Carcinogen<br>Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen |
| | OSHA (Occupational Safety and Health Administration of the US Department of Labor)<br>X - Present |
| Reproductive toxicity: | None known for product as a whole. |
| Developmental Toxicity: | None known for product as a whole. |
| 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 |

**The following values are calculated based on chapter 3.1 of the GHS document.** (For exterior use only. Do not use indoors.)

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|---|---|
| ATEmix (oral): | 4,629.00 |
| ATEmix (dermal): | 2,023.70 |
| ATEmix (inhalation-vapor): | 4,336.80 |

## SECTION 12. ECOLOGICAL INFORMATION

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| Ecotoxicity: | 14.75% % of the mixture consists of components(s) of unknown hazards to the aquatic environment. |
| Persistence and Degradability: | No information available |
| Bio accumulative Potential: | No information available |
| Chemical Name: | Asphalt (at Ambient Temperature) 8052-42-4 |
| Partition coefficient: | >6 |
| Other Adverse Effects: | No information available |

## SECTION 13. DISPOSAL CONSIDERATIONS

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|---|---|
| Product Disposal: | Dispose in accordance with local, state, and federal regulations. |
| Contaminated Packaging: | Do not reuse container. |

## SECTION 14. TRANSPORT INFORMATION

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| Proper Shipping Name: | NanoCure® Sound Barrier (Solvent Based) |
| Hazard Class / Pkg Grp: | 3 / III |
| Special Provisions: | Not regulated in containers less than 119 Gallons (450 Liters) |
| Emergency Response Guide Number: | 128 |

## SECTION 15. REGULATORY INFORMATION

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|---|---|
| United States: | TSCA (Toxic Substance Control Act) & NFPA (National Fire Protection Agency) |
| TSCA Regulatory: | All ingredients are on the TSCA Inventory or are not required to be listed on the TSCA Inventory. |

**US Federal Regulations**

| | | |
|---|---|---|
| SARA 313: | Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. | |
| SARA 311/312 Hazard Categories: | Acute health hazard | Yes |
| | Chronic Health Hazard | Yes |
| | Fire hazard | Yes |
| | Sudden release of pressure hazard | No |
| | Reactive Hazard | No |
| 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**

California Proposition 65: This product contains the following Proposition 65 chemicals

| Chemical Name | California Proposition 65 |
|---|---|
| Hydrated Aluminum-Magnesium Silicate (Attapulgite) - 12174-11-7 | Carcinogen |
| 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 | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Asphalt (at Ambient Temperature) 8052-42-4 | X | X | X |
| Mineral Spirits (with < 0.1% Benzene) 8052-41-3 | X | X | X |
| Nonane 111-84-2 | X | X | X |
| QUARTZ 14808-60-7 | X | X | X |

**U.S. EPA Label Information**

EPA Pesticide Registration Number: Not applicable

## SECTION 16. OTHER INFORMATION

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|---|---|---|---|---|
| NFPA | Health Hazards 2 | Flammability 3 | Instabillty 0 | Physical / Chemical Properties – |
| HMIS | Health Hazards 2 | Flammability 3 | Physical Hazards 0 | Personal Protection – |

All information, recommendations and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied is being made as to the effects of such use, the results obtained, or the safety and toxicity of the product nor is there any assumed liability arising out of use, by others, of the product referred to herein. The information herein is not 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 regulations. In no way shall ***NanoCure Protective Coatings, Inc***. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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