Material Safety Data Sheet - MSDS 0032033

VIVASIL NANO PU SEAL BLACK Waterbased (Non Flammable)

HS CODE: 32099020 Revision Date : 12th September 2019

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name : **VIVASIL NANO PU SEAL BLACK -POLYURETHANE ASPHALT**

Intended use : **Waterbased Emulsion-Wet areas Waterproof repairing products**

Manufacturer : **Vivasil Paints (M) Sdn Bhd (1117204-T)**
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2. HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazard -Not classified as a physical hazard under GHS criteria

Health Hazard -Specific target organ toxicity: - Repeated exposure -Category 2

Environmental Hazard -Not classified as an environmental hazard under GHS criteria

Hazard statements -H373: May cause damage to organs through prolonged or repeated exposure

Precautionary statements -P260: Do not breathe dust/fume/gas/mist/vapours/spray

Response P314: -Get medical advice/attention if you feel unwell

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Disposal -P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with local or national regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances - Quarts Substances determined to be non-hazardous

4. FIRST-AID MEASURES

INHALATION

Move person to fresh air and call for medical assistance immediately. If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

SKIN CONTACT

In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes. If irritation persists, get medical attention.

EYE CONTACT

Immediately flush eyes with large amounts of water until irritation subsides. Remove contact lens. Obtain medical attention, preferably by an ophthalmologist, immediately.

INGESTION

DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately

5. FIRE FIGHTING MEASURES

SUITABLE FIRE EXTINGUISHING MEDIA -Alcohol - resistant foam, Carbon dioxide, or dry chemical type.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

Wear full protective clothing and NIOSH - approved self - contained breathing apparatus. Use water spray to cool fire - exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours. If possible, isolate product from heat, electrical equipments, sparks and open flames. Avoid spraying water directly into storage containers. Closed containers may explode when exposed to extreme heat. Avoid spreading burning liquid with water, isolate liquid.Do not allow runoff from fire fighting to enter drains or watercourses.

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

Wear appropriate protective equipment, e.g. respirators, eye protection, gloves and safety shoes. Avoid substance contact with eyes. Do not inhale vapours. Ensure supply of fresh air in enclosed rooms.

ENVIRONMENTAL PRECAUTIONS

Eliminate sources of ignition. Keep public away. Contain spilled liquid with sand or other non-combustible absorbent materials. Wash area and prevent runoff into drains and sewerage system. Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP

Clean up all spills immediately. Absorb spill with absorbent and inert material, then place in container. Disposal in accordance to local/national regulations

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Use appropriate personal protective equipment. Keep out of reach of children. Handle containers with care. Open slowly in order to control possible pressure release. Do not pressurize containers. Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes. For personal protection, see section 8. Use only in areas from which all naked lights and other sources of ignition have been excluded. Take precautionary measures against static discharge. Protect from frost and extremes of temperature.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILTIES

Keep containers tightly closed. Containers that are opened should be properly resealed and kept upright to prevent leakage. Store in cool, dry and well - ventilated place at temperature between 20°C to 40°C away from heat and sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION

Respiratory Protection: Use of NIOSH - approved respirators with organic vapour cartridges is recommended.

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Hand Protection: Use of solvent resistance type or chemical resistant type of protective gloves is recommended. Eye Protection: Use of safety glasses or goggles with side shields is recommended. Skin / Body Protection: Wear chemical resistant clothes and safety shoes when handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Odour	: Aromatic hydrocarbon odour
Odour threshold	: Not available
pH	: Not available
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Between 100 and 100 °C
Flash point	: Not available
Evaporation rate	: Not available
Flammability (solid, gas)	: Not applicable
Lower flammability or explosive limit	: Not available
Upper flammability or explosive limit	: Not available
Vapour pressure	: Not available
Vapour density	: > 1.00 (Vapour is heavier than air)
Relative density	: Not available
Solubility	: Not Miscible in water
Partition coefficient	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: 60 - 100 KU

10. STABILITY AND REACTIVITY

REACTIVITY -No dangerous reaction known under condition of normal use.

CHEMICAL STABILITY

The product is stable under recommended storage and handling conditions.

POSSIBILITY OF HAZARDOUS REACTION

Under normal conditions of storage and use, hazardous reaction will not occur.

CONDITIONS TO AVOID

Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.

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HAZARDOUS DECOMPOSITION PRODUCTS When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity
Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

Skin corrosion or irritation dasdsa
Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Serious eye damage or irritation
May be an eye irritant

Respiratory or skin sensitisation
Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract

C**arcinogenicity**
Titanium Dioxide The International Agency for Research on Cancer (IARC) has classified Titanium Dioxide as possibly carcinogenic to humans (Group 2B) based on inadequate evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals

12. ECOLOGICAL INFORMATION

Toxicity

The product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses. Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor. All federal, state and local environmental regulations shall be observed.

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14. TRANSPORT INFORMATION

Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for Air.

LAND TRANSPORT

Not classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

SEA TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air.

15. REGULATORY INFORMATION

Applicable national regulations:

Standards on Hazard communication for hazardous chemicals and dangerous goods

- SS 586: Part 1: 2014-Transport and storage of dangerous goods

- SS 586: Part 2: 2014-GHS of classification and labelling of chemicals

- SS 586: Part 3: 2008(2014)-Preparation of safety data sheet

MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations

- This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations.

NEA: Environmental Protection and Management Act & Environmental Protection and Management

- This product is not subject to control under this Acts/Regulations.

(Hazardous Substances) Regulation - This product is not subject to control under this Acts/Regulations.

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SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations

- This product is not subject to the requirement of this Acts/Regulations.

SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules

- This product is not subject to the requirement of this Acts/Regulations.

16. OTHER INFORMATION

Disclaimer To the best of our knowledge, the information contained herein is accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. Since the conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge, for this and other reasons, we make no guarantee of results and assume no liability for damages incurred by the use of this product. Please be reminded that all chemicals may present unknown health hazards and should be used with caution.

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