

SAFETY DATA SHEET

PETTIT



1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Pettit Neptune 5 Hard Hybrid Ablative Antifouling Paint - 1843 Black
Product code 1184300

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Paint
Restrictions on use No information available

2. Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

| | |
|-----------------------|------------|
| Acute toxicity - Oral | Category 4 |
| Carcinogenicity | Category 2 |

2.2 Label elements

Signal Word
Warning

Hazard Statements

Harmful if swallowed
Suspected of causing cancer



Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards Hazards not otherwise classified (HNOC)

Not Applicable

2.4 Other information

Not Applicable

Unknown Acute Toxicity

3.43178691% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Substance

This product is a mixture. Health hazard information is based on its components. Not applicable

Mixture

| Chemical Name | CAS-No | Weight % |
|---------------------------------|------------|----------|
| Cuprous oxide | 1317-39-1 | 20 - 30 |
| Calcium carbonate (Limestone) | 1317-65-3 | 10 - 20 |
| Calcined Kaolin | 92704-41-1 | 5 - 10 |
| Ethylene glycol monobutyl ether | 111-76-2 | 1 - 5 |
| POLYTETRAFLUOROETHYLENE | 9002-84-0 | 1 - 5 |
| Carbon black | 1333-86-4 | 1 - 5 |
| Copper (as Cu Dust & Mists) | 7440-50-8 | < 1 |

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first-aid measures

General advice

Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

| | |
|---------------------|--|
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or poison control center immediately. |
| Skin contact | Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a poison control center or doctor for treatment advice. Wash contaminated clothing before reuse. |
| Inhalation | Move victim to fresh air. Apply artificial respiration if victim is not breathing. Call a physician or poison control center immediately. |
| Ingestion | If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. |

4.2 Most important symptoms and effects, both acute and delayed

Symptoms See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician There is no specific antidote for effects from overexposure to this material. Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical. Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire.

Unsuitable Extinguishing Media None known based on information supplied.

5.2 Special hazards arising from the substance or mixture

Special Hazard

Thermal decomposition can lead to release of irritating gases and vapors

Hazardous Combustion Products Possible formation of carbon oxides, nitrogen oxides, and hazardous organic compounds.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.3 Advice for firefighters

Evacuate personnel to safe areas. Move non-burning material, as feasible, to a safe location as soon as possible. As in any fire, wear self-contained breathing apparatus and full protective gear. Thoroughly decontaminate all protective equipment after use. Use water spray to cool fire-exposed containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment. Stop leak if you can do it without risk. Refer to protective measures listed in sections 7 and 8. Avoid exceeding of the given occupational exposure limits (see section 8). Personal protection needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill.

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for Containment | Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. |

7. Handling and storage

7.1 Precautions for safe handling

| | |
|--------------------------------|--|
| Advice on safe handling | Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Use according to package label instructions. Empty containers may retain product residue or vapor. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|---|
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs. Keep from freezing. |
| Materials to Avoid | No materials to be especially mentioned. |

8. Exposure controls/personal protection

8.1 Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | British Columbia | Alberta | Quebec | Ontario TWAEV |
|--|--|--|---|--|--|--|
| Cuprous oxide 1317-39-1 | TWA: 1 mg/m ³ Cu dust and mist | - | | | | |
| Calcium carbonate (Limestone) 1317-65-3 | - | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ TWA: 3 mg/m ³ STEL: 20 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ | |
| Ethylene glycol monobutyl ether 111-76-2 | TWA: 20 ppm | TWA: 50 ppm TWA: 240 mg/m ³ S* | TWA: 20 ppm | TWA: 20 ppm TWA: 97 mg/m ³ | TWA: 20 ppm TWA: 97 mg/m ³ | TWA: 20 ppm |
| POLYTETRAFLUORO ETHYLENE 9002-84-0 | - | - | | | TWA: 2.5 mg/m ³ | |
| Carbon black 1333-86-4 | TWA: 3 mg/m ³ inhalable fraction | TWA: 3.5 mg/m ³ | TWA: 3 mg/m ³ | TWA: 3.5 mg/m ³ | TWA: 3.5 mg/m ³ | TWA: 3 mg/m ³ |
| Copper (as Cu Dust & Mists) 7440-50-8 | TWA: 1 mg/m ³ Cu dust and mist | TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist | TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ | TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ |

8.2 Appropriate engineering controls

| | |
|-----------------------------|---|
| Engineering Measures | None under normal use conditions. Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust |
|-----------------------------|---|

ventilation and good general extraction.

8.3 Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|--|
| Eye/Face Protection | Safety glasses with side-shields. |
| Skin and body protection | Wear protective gloves/ protective clothing. Remove and wash contaminated clothing before re-use. |
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. |
| Hygiene measures | See section 7 for more information |

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Physical state | Liquid |
| Appearance | No information available |
| Color | Black |
| Odor | Hydrocarbon-like |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Methods</u> |
|-------------------------------------|-------------------------|--------------------------|
| pH | 8.0-9.0 | |
| Melting/freezing point | | No information available |
| Boiling point/boiling range | | No information available |
| Flash Point | > 94 °C / > 201 °F | |
| Evaporation rate | | No information available |
| Flammability (solid, gas) | | No information available |
| Flammability Limits in Air | | |
| upper flammability limit | | No information available |
| lower flammability limit | | No information available |
| Vapor pressure | | No information available |
| Vapor density | | No information available |
| Specific Gravity | | No information available |
| Water solubility | | No information available |
| Solubility in other solvents | | No information available |
| Partition coefficient | | No information available |
| Autoignition temperature | | No information available |
| Decomposition temperature | | No information available |
| Viscosity, kinematic | > 22 mm ² /s | |
| Viscosity, dynamic | | No information available |
| Explosive properties | | No information available |
| Oxidizing Properties | | No information available |

9.2 Other information

| | |
|---|--------------|
| Volatile organic compounds (VOC) content | < 150 g/L |
| Density | 14.24 lb/gal |

10. Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

No information available.

10.5 Incompatible Materials

No materials to be especially mentioned.

10.6 Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors.

11. Toxicological information

11.1 Acute toxicity

Numerical measures of toxicity: Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Unknown Acute Toxicity 3.43178691% of the mixture consists of ingredient(s) of unknown toxicity

| | |
|---------------------|-----------------|
| Oral LD50 | 1,626.00 mg/kg |
| Dermal LD50 | 58,445.00 mg/kg |
| LC50 (Vapor) | 321.00 mg/l |

Numerical measures of toxicity: Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|--------------------|-------------------------|-----------------------|
| Cuprous oxide 1317-39-1 | 470 mg/kg (Rat) | > 2000 mg/kg (Rat) | = 5 mg/L (Rat) 4 h |
| Calcined Kaolin 92704-41-1 | 2000 mg/kg (Rat) | - | - |
| Ethylene glycol monobutyl ether 111-76-2 | 470 mg/kg (Rat) | = 2000 mg/kg (Rabbit) | = 450 ppm (Rat) 4 h |

11.2 Information on toxicological effects

Skin corrosion/irritation

Product Information

- No information available

Component Information

- No information available

Eye damage/irritation

Product Information

- No information available

Component Information

- No information available

Respiratory or skin sensitization

Product Information

- No information available

Component Information

- No information available

Germ cell mutagenicity

Product Information

• No information available

Component Information

• No information available

Carcinogenicity

Product Information

• The table below indicates whether each agency has listed any ingredient as a carcinogen

Component Information

• Contains a known or suspected carcinogen

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------------------|-------|----------|-----|------|
| Carbon black 1333-86-4 | - | Group 2B | - | |

Reproductive toxicity

Product Information

• No information available

Component Information

• No information available

STOT - single exposure

No information available

STOT - repeated exposure

• No information available

Other adverse effects

Product Information

• No information available

Component Information

• No information available

Aspiration hazard

Product Information

• No information available

Component Information

• No information available

12. Ecological information

12.1 Toxicity

Ecotoxicity

No information available

4.19694 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---|---|--|---|
| Cuprous oxide 1317-39-1 | EC50: 96 h Desmodesmus subspicatus 65 mg/L EC50: 96 h Pseudokirchneriella subcapitata 0.021 - 0.037 mg/L EC50: 96 h Pseudokirchneriella subcapitata 0.055 - 0.076 mg/L static | - | EC50: 48 h Daphnia magna 0.51 mg/L |
| Calcined Kaolin 92704-41-1 | EC50: 72 h Desmodesmus subspicatus 100 mg/L | LC50: 96 h Oncorhynchus mykiss 100 mg/L semi-static | EC50: 48 h Daphnia magna 1 mg/L |
| Ethylene glycol monobutyl ether 111-76-2 | - | LC50: 96 h Lepomis macrochirus 1490 mg/L static LC50: 96 h | EC50: 48 h Daphnia magna 1000 mg/L |

| | | | |
|--|---|--|---|
| Copper (as Cu Dust & Mists) 7440-50-8 | EC50: 72 h Pseudokirchneriella subcapitata 0.0426 - 0.0535 mg/L static EC50: 96 h Pseudokirchneriella subcapitata 0.031 - 0.054 mg/L static | Lepomis macrochirus 2950 mg/L LC50: 96 h Pimephales promelas 0.0068 - 0.0156 mg/L LC50: 96 h Pimephales promelas 0.3 mg/L static LC50: 96 h Pimephales promelas 0.2 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 0.052 mg/L flow-through LC50: 96 h Lepomis macrochirus 1.25 mg/L static LC50: 96 h Cyprinus carpio 0.3 mg/L semi-static LC50: 96 h Cyprinus carpio 0.8 mg/L static LC50: 96 h Poecilia reticulata 0.112 mg/L flow-through | EC50: 48 h Daphnia magna 0.03 mg/L Static |
|--|---|--|---|

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Discharge into the environment must be avoided

| Chemical Name | log Pow |
|---|---------|
| Ethylene glycol monobutyl ether 111-76-2 | 0.81 |

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1 Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport Information

| | |
|-----------------------------|---|
| DOT | Not regulated |
| MEX | no data available |
| IMDG | |
| Proper shipping name | UN3082, Environmentally hazardous substance, liquid, n.o.s. (cuprous oxide), 9, PGIII, Marine Pollutant |
| IATA | |
| Proper shipping name | UN3082, Environmentally hazardous substance, liquid, n.o.s. (cuprous oxide), 9, PGIII |

15. Regulatory information

15.1 International Inventories

| | |
|---------------|---|
| TSCA | - |
| DSL | - |
| EINECS/ELINCS | - |
| ENCS | - |

| | |
|--------------|---|
| IECSC | - |
| KECL | - |
| PICCS | - |
| AICS | - |
| NZIoC | - |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2 U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Cuprous oxide 1317-39-1 | 1.0 |
| Ethylene glycol monobutyl ether 111-76-2 | 1.0 |

15.3 Pesticide Information

U.S. EPA Pesticide Information

| |
|---|
| EPA Pesticide Registration Number 60061-142 |
| EPA Statement This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: |
| EPA Pesticide Label WARNING. Causes eye irritation. Harmful if absorbed through the skin. May be fatal if swallowed or inhaled. |

15.4 U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | California Prop. 65 |
|---|---------------------|
| Carbon black - 1333-86-4 | Carcinogen |
| Crystalline silica (Quartz) (Respirable) - 14808-60-7 | Carcinogen |
| Acetaldehyde - 75-07-0 | Carcinogen |

16. Other information

| | | | | |
|-------------|-------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 2 | Flammability 1 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 2* | Flammability 1 | Physical Hazard 0 | Personal protection X |

Legend:
 ACGIH (American Conference of Governmental Industrial Hygienists)
 Ceiling (C)
 DOT (Department of Transportation)

EPA (Environmental Protection Agency)
IARC (International Agency for Research on Cancer)
International Air Transport Association (IATA)
International Maritime Dangerous Goods (IMDG)
NIOSH (National Institute for Occupational Safety and Health)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
Reportable Quantity (RQ)
Skin designation (S)*
STEL (Short Term Exposure Limit)
TLV® (Threshold Limit Value)
TWA (time-weighted average)

Revision Date 01-Oct-2015

Revision Note

No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet