



Safety Data Sheet

Issue Date 03-Jun-2015

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Revision Number 3

1. IDENTIFICATION

Product identifier

Product Code F051-1204
Product Name VINA-CRYL PVA SEALER

Other means of identification

Common Name SERIES 51

Recommended use of the chemical and restrictions on use

Recommended Use industrial paint.
Uses advised against Consumer use, For professional use only. Not for residential use.

Details of the supplier of the safety data sheet

Manufacturer Address
Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372

Emergency telephone number

Company Phone Number Tnemec Regulatory Dept: 816-474-3400
24 Hour Emergency Phone Number 800-535-5053 (Infotrac)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

| | |
|-------------------|------------|
| Flammable Liquids | Category 4 |
|-------------------|------------|

Label elements

EMERGENCY OVERVIEW

| | | |
|--------------------------|------------------------------|--------------------|
| WARNING | | |
| Combustible liquid | | |
| Appearance opaque | Physical state liquid | Odor Slight |

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Response

Get medical advice/attention if you feel unwell
In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep cool
Keep away from children

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

Other information

Cancer hazard. Contains crystalline silica which can cause cancer. (Risk of cancer depends on duration and level of exposure).

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs

SEE SAFETY DATA SHEET

Acute Toxicity

24.689 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight-% |
|-----------------------------|------------|----------|
| PROPYLENE GLYCOL | 57-55-6 | 1 - 10% |
| CRYSTALLINE SILICA (QUARTZ) | 14808-60-7 | 0.1 - 1% |

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

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---|--|
| General advice | If symptoms persist, call a physician. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist. |
| Skin contact | Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. |
| Inhalation | Remove to fresh air. Oxygen or artificial respiration if needed. |
| Ingestion | If swallowed, do not induce vomiting. Get medical attention immediately. |
| Self-protection of the first aider | Use personal protective equipment. Avoid contact with eyes, skin and clothing. |

Most important symptoms and effects, both acute and delayed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media Water.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours In the event of fire and/or explosion do not breathe fumes

Hazardous combustion products Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides. Hydrocarbons. Oxides of nitrogen. Ammonia. Formaldehyde.

Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. MAY CAUSE HEAT AND PRESSURE BUILD-UP IN CLOSED CONTAINERS.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Remove all sources of ignition. Spills may be collected with inert, absorbent material for proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer absorbent material to suitable containers for proper disposal.

Methods for cleaning up If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Close container after each use. Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible products Strong oxidizing agents. Bases. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|------------------------------|----------------------------|----------------------|
| CRYSTALLINE SILICA (QUARTZ) 14808-60-7 | TWA: 0.025 mg/m ³ | TWA: 0.1 mg/m ³ | 50 mg/m ³ |

Appropriate engineering controls

Engineering measures Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA Permissible Exposure Limits (PEL) and ACGIH's Threshold Limit Values (TLV). Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------------|--|
| Eye/face protection | Safety glasses with side-shields |
| Skin and body protection | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. |
| Respiratory protection | Use only with adequate ventilation. Do not breathe vapors, spray mist, or dust. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist or dust levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------------------------|-----------------------|--------------------------|
| Physical state | liquid | Odor | Slight |
| Appearance | opaque | Odor threshold | No information available |
| Color | No information available | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|--|-------------------------|-----------------------------|
| pH | | No data available |
| Melting point / freezing point | | No data available |
| Boiling point / boiling range | 100 °C / 212.0 °F | |
| Flash point | 93 °C / 200.0 °F | Pensky Martens - Closed Cup |
| Evaporation rate | | No data available |
| Flammability (solid, gas) | | Not applicable |
| Flammability Limit in Air | | No data available |
| Upper flammability limit | N/A | |
| Lower flammability limit | 3.2 | |
| Vapor pressure | | No data available |
| Vapor density | | No data available |
| Specific gravity | 1.27847 | g/cm ³ |
| Water solubility | Insoluble in cold water | |
| Solubility in other solvents | | No data available |
| Partition coefficient: n-octanol/water | | No data available |
| Autoignition temperature | | No data available |
| Decomposition temperature | | No data available |
| Kinematic viscosity | | No data available |
| Dynamic viscosity | | No data available |

Other Information

| | |
|---|------------------|
| Density | 10.66246 lbs/gal |
| Volatile organic compounds (VOC) content | 0.90028 lbs/gal |
| Total volatiles weight percent | 58.47 % |
| Total volatiles volume percent | 75.6 % |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents, Bases, Acids

Hazardous decomposition products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides. Hydrocarbons. Oxides of nitrogen. Ammonia. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

| | |
|---------------------|---|
| Inhalation | May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. |
| Eye contact | May cause temporary eye irritation. |
| Skin contact | May cause irritation. |
| Ingestion | May cause irritation. |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-----------------------|--------------------------|-----------------|
| PROPYLENE GLYCOL 57-55-6 | = 20000 mg/kg (Rat) | = 20800 mg/kg (Rabbit) | |
| CRYSTALLINE SILICA (QUARTZ) 14808-60-7 | = 500 mg/kg (Rat) | | |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Cancer hazard. Contains crystalline silica which can cause cancer. (Risk of cancer depends on duration and level of exposure).
Sensitization No information available.
Mutagenicity No information available.
Carcinogenicity This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), potentially carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

| Component | ACGIH | IARC | NTP | OSHA |
|---|-------|---------|-------|------|
| CRYSTALLINE SILICA (QUARTZ) 14808-60-7 | A2 | Group 1 | Known | X |

Reproductive effects No information available.
STOT - single exposure No information available
STOT - repeated exposure No information available
Aspiration hazard No information available.

Acute Toxicity 24.689 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

24.829 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Component | Toxicity to algae | Toxicity to fish | Toxicity to daphnia |
|-----------|-------------------|------------------|---------------------|
| | | | |

| | | | |
|-----------------------------|--|---|---|
| PROPYLENE GLYCOL 57-55-6 | 19000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50 |
|-----------------------------|--|---|---|

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in Environmental Media**Other Adverse Effects**

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal Methods**

Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name paint,water base freezable

IATA

Proper Shipping Name Not regulated

Additional information

Call TNE MEC Traffic Department - 816-474-3400 for additional information or other modes of Transportation.

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

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 Commercial Chemical Substances/EU 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

PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

United States of America

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 and Title 40n of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous

Categorization

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

CERCLA

United States of America

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer

| Component | California Prop. 65 |
|--|---------------------|
| CRYSTALLINE SILICA (QUARTZ) - 14808-60-7 | Carcinogen |

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

| Component | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| PROPYLENE GLYCOL 57-55-6 | X | | X |
| CRYSTALLINE SILICA (QUARTZ) 14808-60-7 | X | X | X |

16. OTHER INFORMATION

NFPA Health 2 Flammability 1 Instability 1 Physical hazard -
HMIS (Hazardous Health 2 Flammability 1 Reactivity 1
Material Information
System)

Prepared By Tnemec Regulatory Dept: 816-474-3400
 Revision Date 03-Jun-2015

Revision Summary
 9 4 5 7 10 11 14 15

Disclaimer

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of MSDS