

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

**Trade name** PE-VRM-TFF A  
**Product no.** PE-VRM-TFF A

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

**Relevant identified uses of the substance or mixture** None known.  
Restricted to professional and industrial use.  
**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

**Company and address** **APN Performance Coatings**  
4400 A. Chomedey O  
H7R 6E9 Laval, QC  
Canada  
+1(450)-818-0626  
<https://purepoxy.com>  
**Contact person** Mickael Blais Roberge  
**E-mail** [mblaisroberge@apnonweiler.com](mailto:mblaisroberge@apnonweiler.com)  
**SDS date** 2026-06-19  
**SDS Version** 1.0

### 1.4. Emergency telephone number

24-Hour Emergency Telephone Number Canada (CANUTEC): (613) 996-6666

## SECTION 2: HAZARD(S) IDENTIFICATION

Classified as hazardous according to Hazardous Products Regulation SOR/2015-17 (as amended by SOR/2022-272).

### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.  
Skin Sens. 1; H317, May cause an allergic skin reaction.  
Eye Irrit. 2; H319, Causes serious eye irritation.  
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### Hazard pictogram(s)



#### Signal word

Warning

#### Hazard statement(s)

Causes skin irritation. (H315)  
May cause an allergic skin reaction. (H317)  
Causes serious eye irritation. (H319)  
Toxic to aquatic life with long lasting effects. (H411)

#### Precautionary statement(s)

##### General

Not applicable.

##### Prevention

Avoid breathing mist/vapour. (P261)  
Wash hands thoroughly after handling. (P264)  
Contaminated work clothing should not be allowed out of the workplace. (P272)  
Avoid release to the environment. (P273)  
Wear eye protection/protective gloves/protective clothing. (P280)

**Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)  
If eye irritation persists: Get medical advice/attention. (P337+P313)  
Take off contaminated clothing and wash it before reuse. (P362+P364)  
Collect spillage. (P391)

**Storage**

Not applicable.

**Disposal**

Dispose of contents/container in accordance with local regulation. (P501)

**Hazardous substances**

reaction product: bisphenol-A-(epichlorhydrin);epoxy resin (number average molecular weight  $\leq 700$ )

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1. Substances**

Not applicable. This product is a mixture.

**3.2. Mixtures**

| Chemical name                                                                                            | Common name/synonyms | Identifiers         | % w/w  | Classification                                                                                                         | Note |
|----------------------------------------------------------------------------------------------------------|----------------------|---------------------|--------|------------------------------------------------------------------------------------------------------------------------|------|
| reaction product: bisphenol-A-(epichlorhydrin);epoxy resin (number average molecular weight $\leq 700$ ) |                      | CAS No.: 25068-38-6 | 80-95% | Skin Irrit. 2, H315 (SCL: 5.00 %)<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319 (SCL: 5.00 %)<br>Aquatic Chronic 2, H411 |      |
| benzyl alcohol                                                                                           |                      | CAS No.: 100-51-6   | 5-10%  | Acute Tox. 4, H302<br>Acute Tox. 4, H332                                                                               |      |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**
**SECTION 4: FIRST-AID MEASURES**
**4.1. Description of first aid measures**
**General information**

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).  
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

**Inhalation**

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

**Skin contact**

IF ON SKIN: Wash with plenty of water and soap.  
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.  
If skin irritation occurs: Get medical advice/attention.

**Eye contact**

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

**Ingestion**

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.  
In case of malaise, seek medical advice immediately and bring the safety data

sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

**Burns**

Not applicable.

**4.2. Most important symptoms and effects, both acute and delayed**

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

If eye irritation persists: Get medical advice/attention.

**Information to medics**

Bring this safety data sheet or the label from this product.

**SECTION 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

**5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

**6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

|                                     |                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------|
| <b>Recommended storage material</b> | Always store in containers of the same material as the original container.       |
| <b>Storage conditions</b>           | No specific requirements.                                                        |
| <b>Incompatible materials</b>       | Strong acids, strong bases, strong oxidizing agents, and strong reducing agents. |

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### ALBERTA

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]  
Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 10

Annotations:

3 = Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.

Carbon black

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 3.5

Occupational Health and Safety Code 2009 Order, Alta Reg 87/2009 (revised in 2018)

#### BRITISH COLUMBIA

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Time-Weighted Average Limit (TWA):  $10 \text{ mg}/\text{m}^3$

Annotations:

N = The 8-hour TWA is for the total dust. The substance also has an 8-hour TWA of  $3 \text{ mg}/\text{m}^3$  for the respirable fraction.

Carbon black

Time-Weighted Average Limit (TWA):  $3 \text{ mg}/\text{m}^3$

OHS Regulation Part 5: Chemical Agents and Biological Agents.

#### ONTARIO

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Time-Weighted Average Limit (TWA):  $10 \text{ mg}/\text{m}^3$

Carbon black

Time-Weighted Average Limit (TWA):  $3 \text{ mg}/\text{m}^3$

Annotations:

(I) = Inhalable fraction.

Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

#### QUEBEC

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 10

Annotations:

Td = Total dust.

Note 1 = The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%.

Carbon black

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 3

Annotations:

Id = Inhalable dust.

Note 3 = Where the use of these products is permitted.

Regulation respecting occupational health and safety (Chapter S-2.1, r. 13)

**SASKATCHEWAN**

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 10

Short term exposure limit (15 minutes) ( $\text{mg}/\text{m}^3$ ): 20

Carbon black

Long term exposure limit (8 hours) ( $\text{mg}/\text{m}^3$ ): 3.5

Short term exposure limit (15 minutes) ( $\text{mg}/\text{m}^3$ ): 7

The Occupational Health and Safety Regulations, 2020, Chapter S15.1 Reg 10.

**8.2. Exposure controls**

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

**General recommendations**

Smoking, drinking and consumption of food is not allowed in the work area.

**Exposure scenarios**

There are no exposure scenarios implemented for this product.

**Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

**Appropriate technical measures**

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

**Hygiene measures**

Take off contaminated clothing and wash it before reuse.

**Measures to avoid environmental exposure**

Keep damming materials near the workplace. If possible, collect spillage during work.

**Individual protection measures, such as personal protective equipment****Generally**

No specific requirements.

**Respiratory Equipment**

No specific requirements.

**Skin protection**

No specific requirements.

**Hand protection**

No specific requirements.

**Eye protection**

No specific requirements.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

|                                                    |                                      |
|----------------------------------------------------|--------------------------------------|
| <b>Physical state</b>                              | Liquid                               |
| <b>Colour</b>                                      | Toffee                               |
| <b>Odour</b>                                       | No data available.                   |
| <b>Odour threshold (ppm)</b>                       | No data available                    |
| <b>pH</b>                                          | No data available                    |
| <b>Density (<math>\text{g}/\text{cm}^3</math>)</b> | 1.19                                 |
| <b>Kinematic viscosity</b>                         | No data available.                   |
| <b>Dynamic viscosity</b>                           | 4,000 centiPoise                     |
| <b>Particle characteristics</b>                    | Not applicable - product is a liquid |

**Phase changes**

|                                                                     |                            |
|---------------------------------------------------------------------|----------------------------|
| <b>Melting point/Freezing point (<math>^{\circ}\text{C}</math>)</b> | No data available          |
| <b>Softening point/range (<math>^{\circ}\text{F}</math>)</b>        | Does not apply to liquids. |

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Boiling point (°C)</b>             | No data available |
| <b>Vapour pressure</b>                | No data available |
| <b>Relative vapour density</b>        | No data available |
| <b>Decomposition temperature (°C)</b> | No data available |

**Data on fire and explosion hazards**

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Flash point (°C)</b>               | No data available |
| <b>Flammability (°C)</b>              | No data available |
| <b>Auto-ignition temperature (°C)</b> | No data available |
| <b>Explosion limits (% v/v)</b>       | No data available |

**Solubility**

|                                             |                   |
|---------------------------------------------|-------------------|
| <b>Solubility in water</b>                  | No data available |
| <b>n-octanol/water coefficient (LogKow)</b> | No data available |
| <b>Solubility in fat (g/L)</b>              | No data available |

**9.2. Other information**

|                                                |                    |
|------------------------------------------------|--------------------|
| <b>Evaporation rate (n-butylacetate = 100)</b> | No data available  |
| <b>Other physical and chemical parameters</b>  | No data available. |
| <b>Oxidizing properties</b>                    | No data available. |

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Long term effects**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.  
Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**Other information**

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] has been classified by IARC as a group 2B.

Carbon black has been classified by IARC as a group 2B.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

Based on available data, the classification criteria are not met.

**12.2. Persistence and degradability**

Based on available data, the classification criteria are not met.

**12.3. Bioaccumulative potential**

Based on available data, the classification criteria are not met.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste treatment methods**

None of the components are listed

**Specific labelling****Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: TRANSPORT INFORMATION**

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name                     | 14.3<br>Hazard class(es)                                         | 14.4<br>PG* | 14.5<br>Env** | Other information:                      |
|------|-----------------|-----------------------------------------------------|------------------------------------------------------------------|-------------|---------------|-----------------------------------------|
| TDG  | -               | -                                                   | -                                                                | -           | -             | -                                       |
| IMDG | UN3082          | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Transport hazard class: 9<br>Label: 9<br>Classification code: M6 | III         | Yes           | Limited quantities: 5 L<br>EmS: F-A S-F |

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name                     | 14.3<br>Hazard class(es)                                                                                                                              | 14.4<br>PG* | 14.5<br>Env** | Other information:                    |
|------|-----------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|---------------------------------------|
|      |                 |                                                     |                                                                      |             |               | See below for additional information. |
| IATA | UN3082          | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Transport hazard class: 9<br>Label: 9<br>Classification code: M6<br> | III         | Yes           | See below for additional information. |

\* Packing group

\*\* Environmental hazards

#### Additional information

This product is within scope of the regulations of transport of dangerous goods.

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of TDG/IMDG/IATA provided the packaging's meet the general provisions of packaging.

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IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2. Canadian lists

NDSL

None of the components are listed

DSL

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ] titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]  
benzyl alcohol  
Carbon black

#### 15.4. Restrictions for application

Restricted to professional users.

#### 15.5. Demands for specific education

No specific requirements.

#### Additional information

Not applicable.

#### 15.7. Chemical safety assessment

No

**Sources**

Hazardous Products Regulation SOR/2015-17 (as amended by SOR/2022-272)

**SECTION 16: OTHER INFORMATION****Full text of H-phrases as mentioned in section 3**

H302, Harmful if swallowed.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
H332, Harmful if inhaled.  
H411, Toxic to aquatic life with long lasting effects.

**The full text of identified uses as mentioned in section 1**

None known.

**Abbreviations and acronyms**

ANSI = American National Standards Institute  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
DSL = Domestic Substances List  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HHNOC = Health Hazards Not Otherwise Classified  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogKow = logarithm of the n-octanol/water coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NDSL = Non-domestic substances list  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PHNOC = Physical Hazards Not Otherwise Classified  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
SCL = A specific concentration limit.  
SOR = Statutory Orders and Regulations  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TDG = Transportation of Dangerous Goods  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative  
WHIMS = Workplace Hazardous Materials Information System

**Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by WHMIS 2022

**The safety data sheet is validated by**

Hermann Wentz

**SDS date**

2026-06-19

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en