

# SAFETY DATA SHEET



Date of issue : 30 January 2026

Version : 6.01

## Section 1. Identification

Product code : T448/1L

Product name : T448 RUSSET

Other means of identification : 30007596

Product type : Liquid.

### Recommended use and restrictions

Use of the substance/  
mixture : Coating.

Uses advised against : Not applicable.

Supplier's details : PPG INDUSTRIES NEW ZEALAND LTD  
5 MONAHAN ROAD, MT WELLINGTON,  
AUCKLAND  
www.ppgnz.co.nz

Telephone: 0800 990 093; 09 573 1620

Emergency telephone  
number (with hours of  
operation) : New Zealand 0800 000 096 (24 hours) / Australia 1800 883 254 (24 hours)  
For international shipping emergencies: 1-412-391-1618

## Section 2. Hazards identification

HSNO Classification : SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Symbol :



### GHS label elements

Signal word : Warning

Hazard statements : May cause damage to organs through prolonged or repeated exposure. (lungs, respiratory tract)

### Precautionary statements

Prevention : Do not breathe vapour.

Response : Get medical advice/attention if you feel unwell.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not  
result in classification : None known.

## Section 2. Hazards identification

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and has been classified according to the Hazardous Substances (Classifications) Notice 2017.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Land Transport Rule: Dangerous Goods 2005.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : 30007596

### CAS number/other identifiers

**Product code** : T448/1L

| Hazardous ingredients                                                           | %       | CAS number |
|---------------------------------------------------------------------------------|---------|------------|
| 2-butoxyethanol                                                                 | 1 - <10 | 111-76-2   |
| 2,9-dimethylantra[2,1,9-def:6,5,10-d'e'f]diisoquinoline-1,3,8,10(2H,9H)-tetrone | 1 - <10 | 5521-31-3  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment or have an OEL and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.  
 In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.  
 In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eyes** : No specific data.

## Section 4. First aid measures

**Inhalation** : No specific data.

**Skin** : No specific data.

**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Specific treatments** : Not available.

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

| Ingredient name | Exposure limits                                                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-butoxyethanol | <b>HSWA 2015 - HSW (GRWM) 2016.</b><br><b>Workplace exposure standards (WES)</b><br><b>(New Zealand, 2/2025)</b> Absorbed through skin.<br>WES-TWA 8 hours: 10 ppm.<br>WES-TWA 8 hours: 49 mg/m <sup>3</sup> .<br>WES-STEL 15 minutes: 98 mg/m <sup>3</sup> .<br>WES-STEL 15 minutes: 20 ppm. |

### Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : polyethylene
- Eye protection** : Safety glasses with side shields.
- Skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Colour** : Red.
- Odour** : Faint odour.
- Odour threshold** : Not available.
- pH** : 8
- Melting point** : Not available.
- Boiling point** : >37.78°C (>100°F)
- Flash point** : ☒ Closed cup: Not applicable. [Product does not sustain combustion.]
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapour pressure** : Not available.
- Relative density** : 1.02
- Bulk Density (g/cm³)** : 1.018
- | Media      | Result            |
|------------|-------------------|
| cold water | Partially soluble |
- Solubility(ies)** :
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
- Viscosity** : < 30 s (ISO 6mm)

## Section 10. Stability and reactivity

|                                           |                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>                          | : This mixture contains materials which are unstable under the following conditions: strong UV sources free radical initiators peroxides strong alkalis strong acids reactive metals These could cause the product to polymerise exothermically. Unintentional contact with them should be avoided. Stable under recommended storage and handling conditions (see Section 7). |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                                                                                                                                                                                                                             |
| <b>Conditions to avoid</b>                | : No specific data.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidising materials<br>strong acids<br>strong alkalis                                                                                                                                                                                                                                                             |
| <b>Hazardous decomposition products</b>   | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides                                                                                                                                                                                                                                                          |
| <b>Hazardous polymerisation</b>           | : Under normal conditions of storage and use, hazardous polymerisation will not occur.                                                                                                                                                                                                                                                                                        |

## Section 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Inhalation</b>   | : No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : No known significant effects or critical hazards. |
| <b>Skin contact</b> | : No known significant effects or critical hazards. |
| <b>Eye contact</b>  | : No known significant effects or critical hazards. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                     |                     |
|---------------------|---------------------|
| <b>Inhalation</b>   | : No specific data. |
| <b>Ingestion</b>    | : No specific data. |
| <b>Skin contact</b> | : No specific data. |
| <b>Eye contact</b>  | : No specific data. |

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

#### Acute toxicity

| Product/ingredient name                                                           | Result                                                                     | Dose / Exposure                               |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------|
| 2-butoxyethanol                                                                   | Rat - Oral - LD50<br>Rat - Dermal - LD50<br>Rat - Inhalation - LC50 Vapour | 1200 mg/kg<br>>2000 mg/kg<br>3 mg/l [4 hours] |
| 2,9-dimethylanthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone | Rat - Oral - LD50<br>Rat - Dermal - LD50                                   | >5000 mg/kg<br>>2000 mg/kg                    |

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| <b>Conclusion/Summary</b>   | : There are no data available on the mixture itself. |
| <b>Irritation/Corrosion</b> |                                                      |

## Section 11. Toxicological information

| Product/ingredient name | Result                                                                                                                                                                                                                                                            |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-butoxyethanol         | <p>Rabbit - Skin - Moderate irritant<br/> <u>Duration of treatment/exposure</u>: 4 hours<br/> <u>Observation period</u>: 28 days</p> <p>Rabbit - Eyes - Irritant<br/> <u>Duration of treatment/exposure</u>: 24 hours<br/> <u>Observation period</u>: 21 days</p> |

### Conclusion/Summary

- Skin** : There are no data available on the mixture itself.
- Eyes** : There are no data available on the mixture itself.
- Respiratory** : There are no data available on the mixture itself.

### Sensitisation

Not available.

### Conclusion/Summary

- Skin** : There are no data available on the mixture itself.
- Respiratory** : There are no data available on the mixture itself.

### Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Chronic toxicity

Not available.

### Carcinogenicity

Not available.

- Conclusion/Summary** : There are no data available on the mixture itself.

### Mutagenicity

Not available.

- Conclusion/Summary** : There are no data available on the mixture itself.

### Reproductive toxicity

- Conclusion/Summary** : There are no data available on the mixture itself.

### Specific target organ toxicity

|                                                                                 | Category   | Route of exposure | Target organs            |
|---------------------------------------------------------------------------------|------------|-------------------|--------------------------|
| 2,9-dimethylantra[2,1,9-def:6,5,10-d'e'f']disoquinoline-1,3,8,10(2H,9H)-tetrone | Category 2 | -                 | lungs, respiratory tract |

### Aspiration hazard

Not available.

### Numerical measures of toxicity

## Section 11. Toxicological information

### Acute toxicity estimates

| Route                | ATE value      |
|----------------------|----------------|
| Oral                 | 20105.31 mg/kg |
| Inhalation (gases)   | 275371.84 ppm  |
| Inhalation (vapours) | 47.91 mg/l     |

### Other information :

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

## Section 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic and terrestrial toxicity

| Product/ingredient name                                                           | Result         | Species | Dose / Exposure        |
|-----------------------------------------------------------------------------------|----------------|---------|------------------------|
| 2-butoxyethanol                                                                   | Acute - LC50   | Fish    | 1474 mg/l [96 hours]   |
|                                                                                   | Chronic - NOEC | Fish    | >100 mg/l [21 days]    |
| 2,9-dimethylanthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone | LC50           | Fish    | >10000 mg/l [96 hours] |

### Persistence/degradability

| Product/ingredient name                                                           | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------------------------------------------------------------|-------------------|------------|------------------|
| 2-butoxyethanol                                                                   | -                 | -          | Readily          |
| 2,9-dimethylanthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone | -                 | -          | Not readily      |

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| 2-butoxyethanol         | 0.81               | -   | Low       |

### Mobility in soil

**Soil/water partition coefficient** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

**Do not allow to enter drains or watercourses.**

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Not suitable:** : Do not allow to enter drains or watercourses.

The classification of the product may meet the criteria for a hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

|                             | NZ              | IMDG            | IATA            |
|-----------------------------|-----------------|-----------------|-----------------|
| UN number                   | Not regulated.  | Not regulated.  | Not regulated.  |
| UN proper shipping name     | -               | -               | -               |
| Transport hazard class(es)  | -               | -               | -               |
| Packing group               | -               | -               | -               |
| Environmental hazards       | No.             | No.             | No.             |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |

### Additional information

**NZ** : None identified.

**Hazchem code** : Not applicable.

**IMDG** : None identified.

**IATA** : None identified.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Product code** T448/1L

**Date of issue** 30 January 2026

**Version** 6.01

**Product name** T448 RUSSET

## 14. Transport information

**Transport in bulk according to IMO instruments** : Not applicable.

## Section 15. Regulatory information

**New Zealand Inventory of Chemicals (NZIoC)** : All components are listed or exempted.

**HSNO Approval Number** : HSR002670 Subsidiary Hazard

**Emergency Management Regulations** : Level 1: Not applicable.

Level 2: MSDS required when any amount is present in a workplace.

Level 3: Not applicable.

**Approved Handler** : Not applicable.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Section 16. Other information

**Date of issue** : 30 January 2026

**Date of previous issue** : 11/28/2024

 **Indicates information that has changed from previously issued version.**

**Key to abbreviations** : STEL = Short Term Exposure Limit  
TWA = Time-Weighted Average  
WES = Work Exposure Standard

**References** : Not available.

**Organisation that prepared the SDS** : EHS

### Disclaimer

## Section 16. Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.