# **Material Safety Data Sheet**

Date of issue 24 October 2016

Version 18.01

### 1. Product and company identification

Product name : RED MICA
Code : P350-3051

Manufacturer / Supplier : PPG Industries, Inc.

One PPG Place, Pittsburgh, PA 15272

Emergency telephone

number

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

Technical Phone Number : 1-800-647-6050

### 2. Hazards identification

**Emergency overview** 

DANGER!

MAY FORM EXPLOSIVE DUST-AIR MIXTURES. MAY BE HARMFUL IF INHALED OR SWALLOWED. ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Keep away from heat, sparks and flame. Prevent dust accumulation. Do not swallow. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation

Ingestion

May be harmful if inhaled. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
 May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and

cause damage.

SkinMay cause skin dryness and irritation.EyesModerately irritating to eyes.

Over-exposure signs/symptoms

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting

Skin

Adverse symptoms may include the following:

irritation dryness cracking

**Eyes** 

Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by over-

exposure

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product.

Canada - Mexico Page: 1/7

Product code P350-3051 Date of issue 24 October 2016 Version 18.01

**Product name RED MICA** 

#### Hazards identification 2.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS).

See toxicological information (Section 11)

#### Composition/information on ingredients 3

<u>Name</u>	CAS number	% (w/w)
Mica-group minerals	12001-26-2	30 - 60
titanium dioxide	13463-67-7	15 - 40
Naphtha (petroleum), heavy alkylate	64741-65-7	5 - 10

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 and hence require reporting in this section.

#### First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

: Remove contact lenses, irrigate copiously with clean, fresh water, holding the Eye contact eyelids apart for at least 10 minutes and seek immediate medical advice.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and Skin contact water or use recognized skin cleanser. Do NOT use solvents or thinners.

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.

If swallowed, seek medical advice immediately and show this container or label. Ingestion

Keep person warm and at rest. Do NOT induce vomiting.

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### **5** . Fire-fighting measures

Flammability of the product : Fine dust clouds may form explosive mixtures with air. Runoff to sewer may create fire or explosion hazard.

**Extinguishing media** 

Suitable : Use dry chemical powder.

Not suitable Do not use water jet. Special exposure hazards 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. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

**Hazardous combustion** : Decomposition products may include the following materials: metal oxide/oxides products

**Special protective** Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Canada - Mexico

Page: 2/7

Product code P350-3051 Date of issue 24 October 2016 Version 18.01
Product name RED MICA

#### 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilled 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).

Large spill

: Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

### 7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** 

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

Name	Result	ACGIH	Ontario	Mexico	PPG
Mica-group minerals	TWA	3 mg/m³ R	3 mg/m³ R	3 mg/m³ R	Not established
titanium dioxide	TWA	10 mg/m³	10 mg/m³ TD	10 mg/m³	Not established

#### Key to abbreviations

A = Acceptable Maximum Peak SR = Respiratory sensitization
ACGIH = American Conference of Governmental Industrial Hygienists. SS = Skin sensitization

C = Ceiling Limit STEL = Short term Exposure limit values
F = Fume TD = Total dust

IPEL = Internal Permissible Exposure Limit

R = Respirable

TLV = Threshold Limit Value

TWA = Time Weighted Average

S = Potential skin absorption

Consult local authorities for acceptable exposure limits.

Canada - Mexico Page: 3/7

Product code P350-3051 Date of issue 24 October 2016 Version 18.01

### Product name RED MICA

### 8. Exposure controls/personal protection

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

**Engineering measures** 

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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.

**Personal protection** 

**Hands** 

**Eyes** : Safety glasses with side shields.

: 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.

Respiratory:

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. 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. Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

**Environmental exposure** 

controls

Skin

: 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.

## 9. Physical and chemical properties

Physical state : Solid.

Flash point : Solved cup: 52.78°C (127°F)

Explosion limits : Lower: 1%
Color : Not available.
Odor : Not available.
pH : Not available.
Boiling/condensation point : Not available.
Melting/freezing point : Not available.

Specific gravity : 2.47

Density ( lbs / gal ) : 20.61

**Vapor pressure** : 0.13 kPa (1 mm Hg) [room temperature]

Vapor density : Not available.

Volatility : 33% (v/v), 10% (w/w) Evaporation rate : 0.1 (butyl acetate = 1)

Canada - Mexico Page: 4/7

Product code P350-3051 Date of issue 24 October 2016 Version 18.01

**Product name RED MICA** 

### 9. Physical and chemical properties

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n- : Not available.

octanol/water

% Solid. (w/w) : 90

## 10 . Stability and reactivity

**Stability** 

: Stable under recommended storage and handling conditions (see Section 7).

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition

(spark or flame). Prevent dust accumulation.

Materials to avoid : Reactive or incompatible with the following materials:,acids,oxidizing materials,strong

alkalis

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Hazardous polymerization**: Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-

Conclusion/Summary

**Chronic toxicity** 

: Not available.

Conclusion/Summary :

: Not available.

**Defatting irritant** 

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

**Target organs** 

: Contains material which causes damage to the following organs: brain, central nervous

system (CNS).

Contains material which may cause damage to the following organs: lungs, upper

respiratory tract.

**Carcinogenicity** 

Carcinogenicity

: Contains material which may cause cancer, based on animal data. Risk of cancer

depends on duration and level of exposure.

#### **Classification**

Product/ingredient name	ACGIH	IARC	NTP
titanium dioxide	A4	2B	-

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be

a human carcinogen

Not listed or regulated as a carcinogen: -

Canada - Mexico Page: 5/7

Product code P350-3051 Date of issue 24 October 2016 Version 18.01

**Product name RED MICA** 

## 12. Ecological information

**Environmental effects** 

: No known significant effects or critical hazards.

**Aquatic ecotoxicity** 

• • • • • • • • • • • • • • • • • • • •	Result	Species	Exposure
name			
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

## 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

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

	TDG	Mexico	IMDG
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

**TDG** : None identified. None identified. Mexico **IMDG** : 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.

Canada - Mexico Page: 6/7 Product code P350-3051 Date of issue 24 October 2016 Version 18.01

**Product name RED MICA** 

## 15. Regulatory information

Canada inventory ( DSL ) : All components are listed or exempted.

**Canada** 

**WHMIS (Canada)** : Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material

causing other toxic effects (Toxic).

**Mexico** 

Classification

Flammability: 72 Health: 2 Reactivity: 0

#### 16. Other information

**Hazardous Material Information System (U.S.A.)** 

Health: 2 \* Flammability: \( \overline{2} \) Physical hazards: 0

(\*) - Chronic

effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** 

Health: 2 Flammability: \( \bar{2} \) Instability: 0

Date of previous issue : 10/19/2016

Organization that prepared : EHS

the MSDS

▼ Indicates information that has changed from previously issued version.

#### **Disclaimer**

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.

Canada - Mexico Page: 7/7