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# SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 03/03/2015

Version 1.1

### **SECTION 1.Identification**

Product identifier

Product name

TRAVEL TO MARS

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

Identified uses Cosmetic raw material

Details of the supplier of the safety data sheet

Supplier: TKB TRADING, LLC 1101 9th Avenue Oakland, CA 94606, USA

Telephone: +1 510 451 9011

### SECTION 2. Hazards identification

### **GHS-Labeling**

Not a dangerous substance according to GHS.

### Other hazards

None known.

## SECTION 3. Composition/information on ingredients

Chemical nature Mica coated with:

titanium dioxide silicon dioxide auxiliaries

## Hazardous ingredients

Chemical Name (Concentration)
CAS-No.
rutile (>= 30 % - < 50 %)
1317-80-2

Exact percentages are being withheld as a trade secret. silicon dioxide (>= 30 % - < 50 %) 7631-86-9

Product name TRAVEL TO MARS Version 1.1

Exact percentages are being wihtheld as a trade secret.

mica (muscovite) (>= 10 % - < 30 % )

12001-26-2

Exact percentages are being wihtheld as a trade secret.

#### **SECTION 4. First aid measures**

### Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/

shower.

Eye contact

After eye contact: rinse out with plenty of water.

Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

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

We have no description of any toxic symptoms.

### Indication of any immediate medical attention and special treatment needed

No information available.

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

### Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

#### Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

none

#### SECTION 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

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Advice for emergency responders:

Protective equipment see section 8.

### **Environmental precautions**

No special precautionary measures necessary.

## Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

# Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Storage temperature: no restrictions.

# SECTION 8. Exposure controls/personal protection

# Exposure limit(s)

Ingredients

Threshold **Basis** Remarks Value

limits

silicon dioxide 7631-86-9

NIOSH/GUIDE Recommended 6 mg/m<sup>3</sup>

exposure limit (REL): Z1A Time Weighted Average 6 mg/m<sup>3</sup>

Time Weighted Average 20millions of

(TWA): particles per

cubic foot of air

Time Weighted Average 0.8 mg/m<sup>3</sup>

The exposure limit is calculated from the equation, (TWA):

80/(%SiO2), using a value of 100% SiO2. Lower values of %

SiO2 will give higher exposure limits.

mica (muscovite) 12001-26-2

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Product name	TRAVEL TO MARS	V 0101011 111

ACGIH Time Weighted Average 3 mg/m³ Form of exposure: Respirable fraction. (TWA):

NIOSH/GUIDE Recommended 3 mg/m³ Form of exposure: Respirable.

exposure limit (REL):

Z1A Time Weighted Average 3 mg/m³ Form of exposure: Respirable dust.

(TWA):
Time Weighted Average 20millions of

(TWA): particles per cubic foot of air

General threshold limit value for dust

Z1A Time Weighted Average 5 mg/m³ Form of exposure: Respirable fraction.

(TWA):

Time Weighted Average 15 mg/m³ Form of exposure: Total dust. (TWA):

Time Weighted Average 50millions of Form of exposure: Total dust.

(TWA): particles per cubic foot of air

Time Weighted Average 15millions of Form of exposure: Respirable fraction.

(TWA): particles per

Time Weighted Average 15 mg/m³ Form of exposure: Total dust.

(TWA):

Time Weighted Average 5 mg/m³ Form of exposure: Respirable fraction. (TWA):

OSHA\_TRANS PEL: 5 mg/m³ Form of exposure: Respirable fraction.

cubic foot of air

PEL: 15 mg/m³ Form of exposure: Total dust.

ACGIH Time Weighted Average 10 mg/m³ Form of exposure: Inhalable particles.

(TWA):
Time Weighted Average 3 mg/m³ Form of exposure: Respirable particles.

(TWA):

## **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

# Eye/face protection

Safety glasses

### 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.

## Respiratory protection

required when dusts are generated.

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.

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## SECTION 9. Physical and chemical properties

Physical state powder

Color white

Odor odorless

Odor Threshold Not applicable

pH 7.0 - 11.0

at 100 g/l 68 °F (20 °C) (slurry)

Melting point No information available.

Boiling point No information available.

Flash point Not applicable

Evaporation rate No information available.

Flammability (solid, gas) The product is not flammable.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Density 2.6 - 2.8 g/cm<sup>3</sup>

at 68 °F (20 °C)

Relative density No information available.

Water solubility at 68 °F (20 °C)

practically insoluble

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

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Oxidizing properties none

Bulk density 360 - 440 kg/m<sup>3</sup>

Particle size Particle size

10.0 - 60.0 µm

## SECTION 10. Stability and reactivity

## Reactivity

See below

### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

## Possibility of hazardous reactions

no information available

### Conditions to avoid

no information available

### Incompatible materials

no information available

## Hazardous decomposition products

no information available

## **SECTION 11. Toxicological information**

## Information on toxicological effects

Likely route of exposure

Inhalation, Eye contact, Skin contact, Ingestion

Target Organs

Eyes

Respiratory system

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

#### Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

rutile 1317-80-2

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

Product name

TRAVEL TO MARS

NTP	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen
	by NTP.
ACGIH	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH.

### **Further information**

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no systemic effects are to be anticipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions. The individual test results were as follows: skin tolerance (rabbit): no irritant effect; eye irritation test (rabbit): no irritant effect; LD₅₀ (oral, rat): not determinable; all animals still alive after 5,000 mg/kg.

Subchronic toxicity (rat): no appreciable findings up to 20 000 ppm.

LC₅₀ (inhalational, rat):> 10.1 ml/l/4 h

Handle in accordance with good industrial hygiene and safety practice.

## Ingredients

rutile

No information available.

## silicon dioxide

Acute dermal toxicity

Rabbit: > 5,000 mg/kg (IUCLID)

Skin irritation

Rabbit

Result: No irritation

OECD Test Guideline 404

Eye irritation

Rabbit

Result: No eye irritation

OECD Test Guideline 405

Sensitization

Sensitization test: Guinea pig

Result: negative

(IUCLID)

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

(IUCLID)

Mutagenicity (mammal cell test): chromosome aberration.

Result: negative

(IUCLID)

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No information available.

## **SECTION 12. Ecological information**

## **Ecotoxicity**

No information available.

## Persistence and degradability

No information available.

## Bioaccumulative potential

No information available.

# Mobility in soil

No information available.

# Ingredients

rutile

No information available.

### silicon dioxide

Toxicity to daphnia and other aquatic invertebrates
EC0 Daphnia magna (Water flea): >= 10,000 mg/l; 24 h
OECD Test Guideline 202

Toxicity to algae

IC50 Pseudokirchneriella subcapitata (green algae): 440 mg/l; 72 h (IUCLID)

NOEC Pseudokirchneriella subcapitata (green algae): 60 mg/l; 72 h (IUCLID)

mica (muscovite)

No information available.

### **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### **SECTION 14. Transport information**

## Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

## Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

### Sea transport (IMDG)

Product name TRAVEL TO MARS Version 1.1

Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15. Regulatory information**

## **United States of America**

#### **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

Table 116.4A.

### **DEA List I**

Not listed

### **DEA List II**

Not listed

## **US State Regulations**

# Massachusetts Right To Know

Ingredients
silicon dioxide
mica (muscovite)

# Pennsylvania Right To Know

Ingredients

rutile

silicon dioxide

mica (muscovite)

# New Jersey Right To Know

Ingredients

silicon dioxide

mica (muscovite)

### California Prop 65 Components

WARNING: this product contains a chemical known in the State of California to cause cancer.

Ingredients

rutile

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Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

KOREA: Not in compliance with the inventory

### SECTION 16. Other information

## Training advice

Provide adequate information, instruction and training for operators.

#### Labeling

Precautionary Statements

Prevention

P260 Do not breathe dust.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date 03/03/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.