

Material Safety Data Sheet



Date of issue 21 May 2018

Version 10

1. Product and company identification

Product name : 1K AEROSOL PRIMER SURFACER-GRAY
Code : SUA1045
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 or + 52 55 5559 1588 (Mexico)
Technical Phone Number : 1-800-647-6050

2. Hazards identification

Emergency overview : DANGER!
EXTREMELY FLAMMABLE. CONTENTS UNDER PRESSURE. CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep away from heat. Do not smoke. Do not puncture, incinerate or store the container at temperatures above 120°F (49°C) or in direct sunlight. Do not breathe vapor or mist. Do not swallow. 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 : May be harmful if inhaled. Severely irritating to the respiratory system. Can irritate eyes, nose, mouth and throat. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.
Skin : May cause skin dryness and irritation.
Eyes : 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:
pain or irritation
watering
redness

2. Hazards identification

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.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS). (1988 Version)

See toxicological information (Section 11)

3. Composition/information on ingredients

| <u>Name</u> | <u>CAS number</u> | <u>% (w/w)</u> |
|--|-------------------|----------------|
| acetone | 67-64-1 | 15 - 40 |
| propane | 74-98-6 | 7 - 13 |
| butane | 106-97-8 | 7 - 13 |
| 4-chloro- α,α,α -trifluorotoluene | 98-56-6 | 5 - 10 |
| butanone | 78-93-3 | 3 - 7 |
| barium sulfate | 7727-43-7 | 1 - 5 |
| Talc, not containing asbestiform fibres | 14807-96-6 | 1 - 5 |
| titanium dioxide | 13463-67-7 | 1 - 5 |
| toluene | 108-88-3 | 1 - 5 |
| xylene | 1330-20-7 | 0.1 - 1 |

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.

4. 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.

- 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.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and 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.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. 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 : ☒ Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.


Extinguishing media

- Suitable** : ☒ Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : ☒ None known.


5 . Fire-fighting measures

- 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 products** : Decomposition products may include the following materials:
carbon oxides
sulfur oxides
phosphorus oxides
halogenated compounds
carbonyl halides
metal oxide/oxides
- 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.

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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. 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** : Stop leak if without risk. 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. 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal 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 breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Vapors are heavier than air and may spread along floors. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Empty containers retain product residue and can be hazardous. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

7. Handling and storage

Storage : Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

| Name | Result | ACGIH | Ontario | Mexico | PPG |
|--|-------------|-----------------------------|--|-----------------------------|------------------------------------|
| acetone | TWA STEL | 250 ppm 500 ppm | 500 ppm 750 ppm | 500 ppm 750 ppm | Not established Not established |
| propane | TWA | Not established | 1000 ppm | 1000 ppm | Not established |
| butane | TWA STEL | Not established 1000 ppm | 800 ppm Not established | 1000 ppm Not established | Not established Not established |
| 4-chloro- α,α,α -trifluorotoluene | TWA | Not established | Not established | Not established | 25 ppm |
| butanone | TWA STEL | 200 ppm 300 ppm | 200 ppm 300 ppm | 200 ppm 300 ppm | Not established Not established |
| barium sulfate | TWA | 5 mg/m ³ | 10 mg/m ³ TD | 10 mg/m ³ | Not established |
| Talc, not containing asbestiform fibres | TWA | 2 mg/m ³ R | 2 ppb R | Not established | Not established |
| | STEL | Not established | 2 mg/m ³ R Not established | 2 mg/m ³ R | Not established |
| titanium dioxide | TWA | 10 mg/m ³ | 10 mg/m ³ TD | 10 mg/m ³ | Not established |
| toluene | TWA STEL | 20 ppm Not established | 20 ppm Not established | 20 ppm Not established | Not established Not established |
| xylene | TWA STEL | 100 ppm 150 ppm | 100 ppm 150 ppm | 100 ppm 150 ppm | Not established Not established |

Key to abbreviations

A = Acceptable Maximum Peak
 ACGIH = American Conference of Governmental Industrial Hygienists.
 C = Ceiling Limit
 F = Fume
 IPEL = Internal Permissible Exposure Limit
 R = Respirable
 S = Potential skin absorption

SR = Respiratory sensitization
 SS = Skin sensitization
 STEL = Short term Exposure limit values
 TD = Total dust
 TLV = Threshold Limit Value
 TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

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. 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.

8 . Exposure controls/personal protection

| | |
|--|--|
| 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 | |
| Eyes | : Safety glasses with side shields. |
| Hands | : 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 | : For prolonged or repeated handling, use the following type of gloves: Recommended: butyl rubber, nitrile rubber, Chloroprene, neoprene, natural rubber (latex) |
| 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. |
| Skin | : 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| 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. |

9 . Physical and chemical properties

| | |
|--------------------------------------|---|
| Physical state | : Liquid. |
| Flash point | : Closed cup: -20°C (-4°F) |
| Explosion limits | : Lower: 2.1% |
| Material supports combustion. | : Yes. |
| Color | : Not available. |
| Odor | : Not available. |
| pH | : Not available. |
| Boiling/condensation point | : 35°C (<95°F) |
| Melting/freezing point | : Not available. |
| Specific gravity | : 0.83 |
| Density (lbs / gal) | : 6.93 |
| Vapor pressure | : 26.2 kPa (196.8 mm Hg) [room temperature] |
| Vapor density | : Not available. |
| Volatility | : 92% (v/v), 79.81% (w/w) |
| Evaporation rate | : 6.21 (butyl acetate = 1) |
| Solubility | : Insoluble in the following materials: cold water. |

9 . Physical and chemical properties

Partition coefficient: n-octanol/water : Not available.

% Solid. (w/w) : 20.19

10 . Stability and reactivity

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

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

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 |
|--|-----------------------|---------|--------------|----------|
| acetone | LD50 Oral | Rat | 5800 mg/kg | - |
| | LD50 Dermal | Rabbit | 15.8 g/kg | - |
| | LC50 Inhalation Vapor | Rat | 76000 mg/m3 | 4 hours |
| butane | LC50 Inhalation | Rat | 658000 mg/m3 | 4 hours |
| 4-chloro- α,α,α -trifluorotoluene | LD50 Oral | Rat | 13 g/kg | - |
| | LD50 Dermal | Rabbit | >2.7 g/kg | - |
| | LC50 Inhalation Vapor | Rat | 33080 mg/m3 | 4 hours |
| butanone | LD50 Oral | Rat | 2737 mg/kg | - |
| | LD50 Dermal | Rabbit | 6480 mg/kg | - |
| titanium dioxide | LD50 Oral | Rat | >11 g/kg | - |
| toluene | LD50 Oral | Rat | 5580 mg/kg | - |
| | LD50 Dermal | Rabbit | 8.39 g/kg | - |
| | LC50 Inhalation | Rat | 49 g/m3 | 4 hours |
| xylene | LD50 Oral | Rat | 4.3 g/kg | - |
| | LD50 Dermal | Rabbit | >1.7 g/kg | - |

Conclusion/Summary : Not available.

Chronic toxicity

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: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, peripheral nervous system, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, eye, lens or cornea.

Carcinogenicity

Carcinogenicity

: Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Classification

11 . Toxicological information

| Product/ingredient name | ACGIH | IARC | NTP |
|-------------------------|-------|------|-----|
| acetone | A4 | - | - |
| titanium dioxide | A4 | 2B | - |
| toluene | A4 | 3 | - |

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: -

Developmental effects : Contains material which may cause developmental abnormalities, based on animal data.

Fertility effects : Contains material which may impair female fertility, based on animal data.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|----------------------------------|-------------------------|----------|
| 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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 | UN1950 | UN1950 | UN1950 |
| UN proper shipping name | AEROSOLS | AEROSOLS | AEROSOLS |
| Transport hazard class(es) | 2.1 | 2.1 | 2.1 |
| Packing group | - | - | - |
| Environmental hazards | Yes. | Yes. The environmentally hazardous substance mark is not required. | Yes. |
| Marine pollutant substances | (trizinc bis (orthophosphate)) | Not applicable. | (trizinc bis (orthophosphate)) |

14. Transport information

Additional information

- TDG** : The marine pollutant mark is not required when transported by road or rail.
- Mexico** : None identified.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

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.

Proof of classification statement : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2), 2.7 (Marine pollutant mark).

15. Regulatory information

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

Canada

WHMIS (Canada) : ☒ Class B-5: Flammable aerosol. Class A: Compressed gas. Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability : ☒4 **Health** : 2 **Reactivity** : 0

16. Other information

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

Health : 2 * **Flammability** : ☒4 **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. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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

Health : 2 **Flammability** : ☒4 **Instability** : 0

Date of previous issue : 5/5/2018

Organization that prepared the MSDS : EHS

☒ 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.