### SAFETY DATA SHEET



Date of issue/Date of revision 13 June 2021

Version 12

### **Section 1. Identification**

Product name : STARMIST ALUMINUM

Product code : DMA395
Other means of : Not available.

identification Product type

: Liquid.

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

Product use : Industrial applications.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place, Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

Emergency telephone

number

(514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number**: 1-800-647-6050

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 15%

(oral), 28.4% (dermal), 19.8% (inhalation)

**GHS label elements** 

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**Product name STARMIST ALUMINUM** 

### Section 2. Hazards identification

**Hazard pictograms** 







Signal word

: Danger

**Hazard statements** 

: Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

**Prevention** 

: Description before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.

Response

: F exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal** 

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

Supplemental label elements

: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

: May form explosive peroxides. Hazardous reactions or instability may occur under certain conditions of storage or use. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product name** 

: STARMIST ALUMINUM

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#### **Product name STARMIST ALUMINUM**

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
butanone	≥20 - ≤32	78-93-3
toluene	≥20 - ≤50	108-88-3
Aluminium powder (stabilized)	≥10 - ≤20	7429-90-5
4-methylpentan-2-one	≥1.0 - ≤6.0	108-10-1
benzyl butyl phthalate	≥1.0 - ≤5.0	85-68-7
Naphtha (petroleum), hydrotreated heavy	≥1.0 - ≤5.0	64742-48-9
ethyl 3-ethoxypropionate	≥1.0 - ≤5.0	763-69-9
Solvent naphtha (petroleum), light aromatic	≤1.9	64742-95-6

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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

### 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 Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### **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.

**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 recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show this 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** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

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### Section 4. First aid measures

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. 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. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides metal oxide/oxides

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

Special protective actions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

For non-emergency personnel

: 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. 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.

For emergency responders:

: If specialized 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 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).

### Methods and materials for containment and cleaning up

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. 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. Use spark-proof tools and explosion-proof equipment. Approach 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and

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### Section 7. Handling and storage

### **Special precautions**

material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). If this material is part of a multiple component system, read the 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.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, : including any incompatibilities

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 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
<b>b</b> utanone	ACGIH TLV (United States, 3/2020).
	STEL: 885 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 590 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 590 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2020).
	TWA: 20 ppm 8 hours.
aluminium powder (stabilised)	ACGIH TLV (United States, 3/2020).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m³, (as Al) 8 hours. Form:
	Respirable fraction
	TWA: 15 mg/m³, (as Al) 8 hours. Form: Total

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### Section 8. Exposure controls/personal protection

4-methylpentan-2-one ACGIH TLV (United States, 3/2020).

> STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 410 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

benzyl butyl phthalate

Naphtha (petroleum), hydrotreated heavy

ethyl 3-ethoxypropionate

None. IPEL (-).

TWA: 50 ppm STEL: 100 ppm

None.

Solvent naphtha (petroleum), light aromatic None.

Key to abbreviations

= Acceptable Maximum Peak S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization

SS = Ceiling Limit = Skin sensitization С F

= Fume STEL = Short term Exposure limit values IPEL = Internal Permissible Exposure Limit TD = Total dust

 Occupational Safety and Health Administration. OSHA TLV = Threshold Limit Value R = Respirable TWA = Time Weighted Average = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring : 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.

Appropriate engineering controls

: 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.

**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.

**Eye/face protection** Skin protection

: Chemical splash goggles.

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### 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** For prolonged or repeated handling, use the following type of gloves:

Recommended: nitrile rubber, butyl rubber

**Body protection** : 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 antistatic protective clothing. For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

: Appropriate footwear and any additional skin protection measures should be selected Other skin protection

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

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.

The respiratory protection shall be in accordance to 29 CFR 1910.134.

### Section 9. Physical and chemical properties

**Appearance** 

**Boiling point** 

**Physical state** : Liquid.

Color : Not available. Odor : Not available. : Not available. **Odor threshold** pН : Not applicable. **Melting point** : Not available. : >37.78°C (>100°F)

Flash point : Closed cup: -6.11°C (21°F)

**Auto-ignition temperature** : Not available. **Decomposition temperature**: Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Lower: 1%

(flammable) limits

: 4.19 (butyl acetate = 1) **Evaporation rate** : 6.1 kPa (45.5 mm Hg) Vapor pressure

Vapor density : Not available.

**Relative density** : 0.98 Density (lbs/gal) : 8.18

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**Product name STARMIST ALUMINUM** 

### Section 9. Physical and chemical properties

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

Partition coefficient: n-

octanol/water

**Volatility** 

: Not applicable.

**Viscosity** : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

: 78% (v/v), 66.2% (w/w)

% Solid. (w/w) : 33.8

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids, amines.

Hazardous decomposition

products

: Depending on conditions, decomposition products may include the following materials:

carbon oxides metal oxide/oxides

### **Section 11. Toxicological information**

#### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>b</b> utanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
aluminium powder (stabilised)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
,	LD50 Oral	Rat	>15900 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
benzyl butyl phthalate	LC50 Inhalation Vapor	Rat	>6700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Dermal	Rat	6700 mg/kg	-
	LD50 Oral	Rat	2.33 g/kg	-
Naphtha (petroleum),	LD50 Dermal	Rabbit	>5000 mg/kg	-
hydrotreated heavy				
	LD50 Oral	Rat	>6 g/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	>5 g/kg	-
			<u> </u>	

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#### **Product name STARMIST ALUMINUM**

### **Section 11. Toxicological information**

Solvent naphtha (petroleum),	LD50 Oral LD50 Dermal		3200 mg/kg 3.48 g/kg	-
light aromatic	LD50 Oral	Rat	8400 mg/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

**Irritation/Corrosion** 

**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.

**Sensitization** 

**Conclusion/Summary** 

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

**Mutagenicity** 

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

**Carcinogenicity** 

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

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
toluene 4-methylpentan-2-one benzyl butyl phthalate	- - -	3 2B 3	- -

#### Carcinogen Classification code:

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

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

OSHA: +

Not listed/not regulated: -

### **Reproductive toxicity**

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
butanone	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Respiratory tract
			irritation
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract
			irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract
			irritation
	Category 3		Narcotic effects

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#### **Product name STARMIST ALUMINUM**

### **Section 11. Toxicological information**

### Specific target organ toxicity (repeated exposure)

Name	•	Route of exposure	Target organs
toluene	Category 2	-	-

**Target organs** 

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

system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, peripheral nervous system, upper respiratory tract, skin.

#### **Aspiration hazard**

Name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

### Potential acute health effects

**Eye contact**: Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation. Defatting to the skin.

**Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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**Product name STARMIST ALUMINUM** 

### **Section 11. Toxicological information**

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** 

There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate

effects

Potential delayed effects

Long term exposure

Potential immediate

effects

There are no data available on the mixture itself.

There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
<b>S</b> TARMIST ALUMINUM	5614.2	248718.6	N/A	39.4	22.3
butanone	2737	6480	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5
benzyl butyl phthalate	2330	6700	N/A	3	N/A
ethyl 3-ethoxypropionate	3200	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A

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**Product name STARMIST ALUMINUM** 

### **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
✓ methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
benzyl butyl phthalate	LC50 0.51 mg/l	Fish	96 hours
	Chronic EC10 0.57 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
ethyl 3-ethoxypropionate	Acute LC50 60.9 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum		
	OECD 301F 83 % - Readily - 28 days		83 % - Readily - 28 days		83 % - Readily - 28 days			-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegi	radability		
voluene 4-methylpentan-2-one ethyl 3-ethoxypropionate	- - -		-		Readily Readily Readily			

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>b</b> utanone	0.3	-	low
toluene	2.73	8.32	low
4-methylpentan-2-one	1.9	-	low
benzyl butyl phthalate	4.77	16.22	low
ethyl 3-ethoxypropionate	1.47	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

### Section 13. Disposal considerations

#### **Disposal methods**

: 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. Vapor from product residues may create a highly flammable or explosive atmosphere

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**Product name STARMIST ALUMINUM** 

### Section 13. Disposal considerations

inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(benzyl butyl phthalate, Solvent naphtha (petroleum), light aromatic)	Not applicable.
Product RQ (lbs)	2089.3	Not applicable.	Not applicable.
RQ substances	(benzyl butyl phthalate, toluene)	Not applicable.	Not applicable.

#### **Additional information**

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

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.

Transport in bulk according : Not applicable.

to IMO instruments

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**Product name STARMIST ALUMINUM** 

### **Section 15. Regulatory information**

#### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

U.S. Federal regulations

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 2

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

HNOC - Defatting irritant

HNOC - May form explosive peroxides.

#### **Composition/information on ingredients**

Name	%	Classification
vutanone	≥20 - ≤32	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
toluene	≥20 - ≤50	HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
4-methylpentan-2-one	≥1.0 - ≤6.0	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant
benzyl butyl phthalate	≥1.0 - ≤5.0	ACUTE TOXICITY (inhalation) - Category 3 TOXIC TO REPRODUCTION - Category 1B
Naphtha (petroleum), hydrotreated heavy	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1

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### Section 15. Regulatory information

**Product name STARMIST ALUMINUM** 

		HNOC - Defatting irritant
ethyl 3-ethoxypropionate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
		HNOC - Defatting irritant
		HNOC - May form explosive peroxides.
Solvent naphtha (petroleum),	≤1.9	FLAMMABLE LIQUIDS - Category 3
light aromatic		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant

#### **SARA 313**

Supplier notification

Chemical name

toluene
Aluminium powder (stabilized)
4-methylpentan-2-one

CAS number
108-88-3
7429-90-5
10 - 30
108-10-1
3 - 7

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

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

Health: 2 \* Flammability: 3 Physical hazards: 1

(\*) - 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 and the associated label are not required on MSDSs or products leaving a facility 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 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: 3 Instability: 1

Date of previous issue : 6/14/2020
Organization that prepared : EHS

the SDS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

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**Product name STARMIST ALUMINUM** 

### **Section 16. Other information**

as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

▼ 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.

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