

# SAFETY DATA SHEET



Date of issue/Date of revision 4 March 2025

Version 4

## Section 1. Identification

**Product name** : GMF2032 GLIDDEN MAX-FLEX EXTERIOR FABRIC PAINT AND PRIMER SATIN ONYX  
**Product code** : 00447060  
**Other means of identification** : Not available.  
**Product type** : Aerosol.

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

**Product use** : Consumer applications, Professional applications, Used by spraying.  
**Use of the substance/mixture** : Coating.  
**Uses advised against** : Not applicable.

**Manufacturer** : PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272

**Emergency telephone number** : (412) 434-4515 (U.S.)  
(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** : 1-800-441-9695 (8:00 am to 5:00 pm EST)


## 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 AEROSOLS - Category 1  
GASES UNDER PRESSURE - Compressed gas  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 2  
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: 29.8% (oral), 29.8% (dermal), 23.7% (inhalation)

### GHS label elements

## Section 2. Hazards identification

<b>Hazard pictograms</b>	:	
<b>Signal word</b>	:	Danger
<b>Hazard statements</b>	:	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	:	Obtain special instructions 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. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
<b>Response</b>	:	<b>P</b> exposed or concerned: Get medical advice or attention. <b>IF INHALED</b> : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. <b>IF ON SKIN</b> : Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. <b>IF IN EYES</b> : 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.
<b>Storage</b>	:	Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	:	Contents under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Do not puncture or incinerate. Keep away from heat and direct sunlight. Sanding and grinding dusts may be harmful if inhaled. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
<b>Hazards not otherwise classified</b>	:	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.

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## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : GMF2032 GLIDDEN MAX-FLEX EXTERIOR FABRIC PAINT AND PRIMER SATIN ONYX

Ingredient name	%	CAS number
acetone	≥20 - ≤50	67-64-1
toluene	≥10 - ≤20	108-88-3
propane	≥10 - ≤20	74-98-6
butane	≥10 - ≤20	106-97-8
isobutyl acetate	≥1.0 - ≤5.0	110-19-0
4-methylpentan-2-one	≥1.0 - ≤5.0	108-10-1
ethyl 3-ethoxypropionate	≥1.0 - ≤5.0	763-69-9
butanone	≥1.0 - ≤5.0	78-93-3
2-methoxy-1-methylethyl acetate	≥1.0 - ≤5.0	108-65-6
2-(propyloxy)ethanol	≥1.0 - ≤4.6	2807-30-9
titanium dioxide	≤1.0	13463-67-7
carbon black	≤1.0	1333-86-4
ethylbenzene	<1.0	100-41-4
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<1.0	41556-26-7
maleic anhydride	<0.10	108-31-6

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.

## Section 4. First aid measures

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

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**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:  
respiratory tract irritation  
coughing  
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 an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : 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.

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

**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. 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.

**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.

## Section 6. Accidental release measures

- 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 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. Avoid breathing gas. 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 only non-sparking tools. Empty containers retain product residue and can be hazardous.
- Special precautions** : 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 away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

[Control parameters](#)[Occupational exposure limits](#)

Ingredient name	Exposure limits
acetone	<b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 250 ppm. STEL 15 minutes: 500 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 1000 ppm. TWA 8 hours: 2400 mg/m <sup>3</sup> .
toluene	<b>ACGIH TLV (United States, 1/2024)</b> Ototoxicant. TWA 8 hours: 20 ppm. <b>OSHA PEL Z2 (United States, 2/2013)</b> TWA 8 hours: 200 ppm. CEIL: 300 ppm. AMP 10 minutes: 500 ppm.
propane	<b>ACGIH TLV (United States, 1/2024)</b> Oxygen depletion [asphyxiant] , Explosive potential. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 1000 ppm. TWA 8 hours: 1800 mg/m <sup>3</sup> .
butane	<b>ACGIH TLV (United States, 1/2024) [Butane]</b> Explosive potential. STEL 15 minutes: 1000 ppm.
isobutyl acetate	<b>ACGIH TLV (United States, 1/2024) [Butyl acetates]</b> STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 150 ppm. TWA 8 hours: 700 mg/m <sup>3</sup> .
4-methylpentan-2-one	<b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 100 ppm. TWA 8 hours: 410 mg/m <sup>3</sup> .
ethyl 3-ethoxypropionate butanone	None. <b>ACGIH TLV (United States, 1/2024)</b> Absorbed through skin. TWA 8 hours: 75 ppm. STEL 15 minutes: 150 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 200 ppm. TWA 8 hours: 590 mg/m <sup>3</sup> .
2-methoxy-1-methylethyl acetate 2-(propyloxy)ethanol titanium dioxide	None. None. <b>ACGIH TLV (United States, 1/2024)</b>

## Section 8. Exposure controls/personal protection

carbon black	TWA 8 hours: 2.5 mg/m <sup>3</sup> . Form: respirable fraction, finescale particles. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 15 mg/m <sup>3</sup> . Form: Total dust. <b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 3 mg/m <sup>3</sup> . Form: Inhalable fraction. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 3.5 mg/m <sup>3</sup> . <b>ACGIH TLV (United States, 1/2024)</b> Ototoxicant. TWA 8 hours: 20 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m <sup>3</sup> .
ethylbenzene	None. <b>ACGIH TLV (United States, 1/2024)</b> Skin sensitizer , Inhalation sensitizer. TWA 8 hours: 0.01 mg/m <sup>3</sup> . Form: Inhalable fraction and vapor. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 0.25 ppm. TWA 8 hours: 1 mg/m <sup>3</sup> .
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate maleic anhydride	

## Key to abbreviations

A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization
F = Fume	STEL = Short term Exposure limit values
IPEL = Internal Permissible Exposure Limit	TD = Total dust
OSHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value
R = Respirable	TWA = Time Weighted Average
Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances	

## Consult local authorities for acceptable exposure limits.

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

**Appropriate engineering controls** : 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

## Section 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Chemical splash goggles.
- Skin 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** : 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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

- Physical state** : Liquid.  
Aerosol.
- Color** : Dark grey.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : <35°C (<95°F)
- Flash point** : Closed cup: -94°C (-137.2°F)
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Flammability** : Not available.

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## Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits : Not available.

Evaporation rate : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 0.75

Density ( lbs / gal ) : 6.26

Solubility(ies) :

Media	Result
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cold water	Not soluble
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Partition coefficient: n-octanol/water : Not applicable.

Viscosity :  Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

% Solid. (w/w) : 10.047

Aerosol product

Type of aerosol : Spray

Heat of combustion : 30.26 kJ/g

## 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.

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

## Section 11. Toxicological information

Information on toxicological effectsAcute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>17400 mg/kg	-
isobutyl acetate	LD50 Oral	Rat	13400 mg/kg	-
	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
4-methylpentan-2-one	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
	LD50 Dermal	Rabbit	>5 g/kg	-
ethyl 3-ethoxypropionate	LD50 Oral	Rat	3200 mg/kg	-
	LD50 Dermal	Rabbit	6480 mg/kg	-
butanone	LD50 Oral	Rat	2737 mg/kg	-
	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
	LD50 Dermal	Rabbit	1.337 g/kg	-
2-(propyloxy)ethanol	LD50 Oral	Rat	3089 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
titanium dioxide	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>10 g/kg	-
carbon black	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
ethylbenzene	LD50 Oral	Rat	3.5 g/kg	-
	LD50 Oral	Rat	3.125 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Dermal	Rabbit	2620 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-

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

Irritation/CorrosionConclusion/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.

SensitizationConclusion/Summary

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

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

Mutagenicity

**Section 11. Toxicological information**

**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	-	3	-
4-methylpentan-2-one	-	2B	-
titanium dioxide	-	2B	-
carbon black	-	2B	-
ethylbenzene	-	2B	-

**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
acetone	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects
isobutyl acetate	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
butanone	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects

**Specific target organ toxicity (repeated exposure)**

Name	Category	Route of exposure	Target organs
toluene	Category 2	-	-
propane	Category 2	-	-
butane	Category 2	-	-
ethylbenzene	Category 2	-	hearing organs
maleic anhydride	Category 1	inhalation	respiratory system

**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, gastrointestinal tract, upper respiratory tract, skin, ears, eye, lens or cornea.

**Aspiration hazard**

**Section 11. Toxicological information**

Name	Result
toluene ethylbenzene	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. May cause an allergic skin reaction.
- 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:  
respiratory tract irritation  
coughing  
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

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

**Section 11. Toxicological information**

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

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

**Long term exposure**

**Potential immediate effects** : 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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**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** : Suspected of damaging 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/l)
GMF2032 GLIDDEN MAX-FLEX EXTERIOR FABRIC PAINT AND PRIMER SATIN ONYX	20862.3	84927.1	N/A	173.3	23.6
acetone	5800	15800	N/A	76	N/A
toluene	5580	8390	N/A	49	N/A
butane	N/A	N/A	N/A	658	N/A
isobutyl acetate	13400	N/A	N/A	N/A	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
ethyl 3-ethoxypropionate	3200	N/A	N/A	N/A	N/A
butanone	2737	6480	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	6190	N/A	N/A	30	N/A
2-(propyloxy)ethanol	3089	1337	N/A	N/A	N/A

## Section 11. Toxicological information

ethylbenzene	3500	17800	N/A	17.8	1.5
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute LC50 4.42589 ml/L Marine water	Crustaceans - <i>Acartia tonsa</i> - Copepodid	48 hours
4-methylpentan-2-one	Acute LC50 5540 mg/l	Fish	96 hours
ethyl 3-ethoxypropionate	Acute LC50 >179 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 60.9 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 134 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
ethylbenzene	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	-

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
acetone	-	90.9 % - Readily - 28 days	-	-
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	-	83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily
toluene	-	-	Readily
4-methylpentan-2-one	-	-	Readily
ethyl 3-ethoxypropionate	-	-	Readily
2-methoxy-1-methylethyl acetate	-	-	Readily
ethylbenzene	-	-	Readily

### Bioaccumulative potential

## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
acetone	-0.23	3	Low
toluene	2.73	8.32	Low
propane	1.09	-	Low
butane	1.09	-	Low
isobutyl acetate	2.3	-	Low
4-methylpentan-2-one	1.9	-	Low
ethyl 3-ethoxypropionate	1.47	-	Low
butanone	0.3	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
2-(propyloxy)ethanol	0.673	-	Low
ethylbenzene	3.6	79.43	Low
maleic anhydride	-2.78	-	Low

### Mobility in soil

Soil/Water partition coefficient : 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. 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

	DOT	IMDG	IATA
UN number	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	-	-	-
Environmental hazards	No.	No.	No.

<b>Product code</b> 00447060	<b>Date of issue</b> 4 March 2025	<b>Version</b> 4
<b>Product name</b> GMF2032 GLIDDEN MAX-FLEX EXTERIOR FABRIC PAINT AND PRIMER SATIN ONYX		

## 14. Transport information

<b>Marine pollutant substances</b>	Not applicable.	Not applicable.	Not applicable.
<b>Product RQ (lbs)</b>	7646.7	Not applicable.	Not applicable.
<b>RQ substances</b>	(toluene, acetone)	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** : None identified.
- IATA** : None identified.

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

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

## Section 15. Regulatory information

### United States

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

### SARA 302/304

**SARA 304 RQ** : Not applicable.

### Composition/information on ingredients

No products were found.

### SARA 311/312

**Classification** :

- FLAMMABLE AEROSOLS - Category 1
- GASES UNDER PRESSURE - Compressed gas
- SKIN IRRITATION - Category 2
- EYE IRRITATION - Category 2A
- SKIN SENSITIZATION - Category 1
- CARCINOGENICITY - Category 2
- TOXIC TO REPRODUCTION - Category 2
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
- SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
- HNOC - Defatting irritant
- HNOC - May form explosive peroxides.

### Composition/information on ingredients

## Section 15. Regulatory information

Name	%	Classification
acetone	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
toluene	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
propane	≥10 - ≤20	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
butane	≥10 - ≤20	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
isobutyl acetate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant
4-methylpentan-2-one	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
ethyl 3-ethoxypropionate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3 HNOC - Defatting irritant HNOC - May form explosive peroxides.
butanone	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
2-methoxy-1-methylethyl acetate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-(propyloxy)ethanol	≥1.0 - ≤4.6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 EYE IRRITATION - Category 2A HNOC - Defatting irritant
titanium dioxide	≤1.0	CARCINOGENICITY - Category 2
carbon black	≤1.0	COMBUSTIBLE DUSTS

**Section 15. Regulatory information**

ethylbenzene	<1.0	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<1.0	SKIN SENSITIZATION - Category 1B TOXIC TO REPRODUCTION - Category 2
maleic anhydride	<0.10	COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

**SARA 313**

<b>Supplier notification</b>	<b>Chemical name</b>	<b>CAS number</b>	<b>Concentration</b>
	Toluene	108-88-3	10 - 30
	4-methylpentan-2-one	108-10-1	1 - 5
	2-(propyloxy)ethanol	2807-30-9	0.5 - 1.5
	ethylbenzene	100-41-4	0.1 - 1

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**

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

**Section 16. Other information**

Please refer to Section 2 of this document for GHS hazard classifications.  
The customer is responsible for determining the PPE code for this material.

**Date of previous issue** : 8/18/2023

**Organization that prepared the SDS** : EHS

**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 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**Product code** 00447060

**Date of issue** 4 March 2025

**Version** 4

**Product name** GMF2032 GLIDDEN MAX-FLEX EXTERIOR FABRIC PAINT AND PRIMER SATIN ONYX

## Section 16. Other information

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.*