SAFETY DATA SHEET



Date of issue/Date of revision 7 February 2024

Version 3

Section 1. Identification

Product name : STEELGUARD 951 LIGHT GRAY BASE

Product code : 00472546

Other means of : Not available.

identification Product type

: Liquid.

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

Product use : 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 : (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: 888-977-4762

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

: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 5.8% (oral), 62.9% (dermal), 86.9% (inhalation)

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

GHS label elements

United States Page: 1/15

Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 2. Hazards identification

Hazard pictograms





Signal word

: Warning

Hazard statements

: Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.

Precautionary statements

Prevention

: 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. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

: IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash 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.

Photosensitive agents: In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

Storage Disposal

: Store locked up.

: Dispose of co

Supplemental label elements

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

: This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Emits toxic fumes when heated. DANGER -RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product name

: STEELGUARD 951 LIGHT GRAY BASE

United States Page: 2/15

Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
bisphenol F diglycidyl ether, isomer mixture	≥10 - ≤19	Not available.
hexamethylene diacrylate	≥5.0 - ≤10	13048-33-4
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	≥5.0 - ≤10	9003-36-5
phosphorous oxychloride, reaction products with propylene oxide	≥5.0 - ≤10	1244733-77-4
titanium dioxide	≥5.0 - ≤10	13463-67-7
Phenol, styrenated	≥5.0 - ≤8.9	61788-44-1
Dodecanedioic acid, polymer with 2,2'-[1,4-butanediylbis(oxymethylene)]bis [oxirane], (chloromethyl)oxirane, 4,4'-(1-methylethylidene)bis[phenol], nonanedioic acid and 2,2'-oxybis[ethanol]	≥1.0 - ≤5.0	139651-91-5
carbon	≥1.0 - ≤5.0	7440-44-0

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. In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed get medical attention if pain, irritation or blistering occurs after contact. 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. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed get medical attention if pain, irritation, rash or blistering occurs after contact. : If swallowed, seek medical advice immediately and show this container or label. Keep Ingestion 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 : No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

United States Page: 3/15

Product code 00472546 Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 4. First aid measures

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. 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

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides
nitrogen oxides
phosphorus oxides
halogenated compounds
metal oxide/oxides
Formaldehyde.

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.

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.

United States Page: 4/15

Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

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. 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. 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. 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. 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.

United States Page: 5/15

Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 7. Handling and storage

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.

including any incompatibilities

Conditions for safe storage, : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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
bisphenol F diglycidyl ether, isomer mixture	None.
hexamethylene diacrylate	IPEL (-). Absorbed through skin. Skin
	sensitizer.
	TWA: 0.11 ppm
	STEL: 0.33 ppm
Formaldehyde, oligomeric reaction products with 1-chloro-	None.
2,3-epoxypropane and phenol	
phosphorous oxychloride, reaction products with propylene oxide	None.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 1/2023).
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable
	fraction, finescale particles
Phenol, styrenated	None.
Dodecanedioic acid, polymer with 2,2'-[1,4-butanediylbis(oxymethylene)]	None.
bis[oxirane], (chloromethyl)oxirane, 4,4'-(1-methylethylidene)bis[phenol],	
nonanedioic acid and 2,2'-oxybis[ethanol]	
carbon	ACGIH TLV (United States).
	TWA: 10 mg/m³, (Inhalable)

Key to abbreviations

Α	Acceptable Maximum Peak	S	=	Potential skin absorption
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	=	Respiratory sensitization
С	= 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
7	= OSHA 29 CFR 1910 1200 Subpart 7 - Toxic and Hazardous Substances			

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring: 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.

United States Page: 6/15

Date of issue 7 February 2024 Ver

Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 8. Exposure controls/personal protection

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

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

Skin protection

: Chemical splash goggles.

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

: polyethylene butyl rubber

Body protection : Personal p

: 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.

nandling this produc

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.
Color : Gray.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

United States Page: 7/15

Product code 00472546 Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 9. Physical and chemical properties

Flash point : Closed cup: 200°C (392°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate

Vapor pressure

Vapor density

Not available.Not available.Not available.

Relative density : 7.47

Density (lbs / gal) : 72.27

Solubility(ies) : Media Result cold water Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

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

Volatility : **0**% (v/v), 0.01% (w/w)

% Solid. (w/w) : 99.99

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 nitrogen oxides phosphorus oxides halogenated compounds

Formaldehyde. metal oxide/oxides

United States Page: 8/15

Section 11. Toxicological information

<u>Information on toxicological effects</u>

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bisphenol F diglycidyl ether, isomer mixture	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-
hexamethylene diacrylate	LD50 Dermal	Rabbit	3.65 g/kg	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	LD50 Oral LD50 Oral	Rat Rat	>5000 mg/kg >10000 mg/kg	-
phosphorous oxychloride, reaction products with propylene oxide	LC50 Inhalation Dusts and mists	Rat	>7 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>2000 mg/kg 630 to 2000 mg/ kg	-
titanium dioxide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rabbit Rat	>6.82 mg/l >5000 mg/kg >5000 mg/kg	4 hours - -
Phenol, styrenated	LD50 Dermal LD50 Oral	Rabbit Rat	>5010 mg/kg 3550 mg/kg	-

Conclusion/Summary

Irritation/Corrosion

Conclusion/Summary

Skin
Eyes
Respiratory

: 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.

: There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
hexamethylene diacrylate Phenol, styrenated		. 0	Sensitizing Sensitizing

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

United States Page: 9/15

Product code 00472546 Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	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		Route of exposure	Target organs
carbon	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

<u>Target organs</u>: Contains material which may cause damage to the following organs: lungs,

cardiovascular system, upper respiratory tract, skin, eyes.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

redness

Ingestion: No specific data.

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

United States Page: 10/15

Product code 00472546 Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. If splashed in the eyes, the liquid may cause irritation and reversible damage. 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.

: There are no data available on the mixture itself.

Potential delayed effects

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

: 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 Reproductive toxicity : No known significant effects or critical hazards. : No known significant effects or critical hazards.

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)
STEELGUARD 951 LIGHT GRAY BASE	3514.9	4097.7	N/A	N/A	N/A
bisphenol F diglycidyl ether, isomer mixture	2500	2500	N/A	N/A	N/A
hexamethylene diacrylate	N/A	3650	N/A	N/A	N/A
phosphorous oxychloride, reaction products with propylene oxide	500	2500	N/A	N/A	N/A
Phenol, styrenated	3550	N/A	N/A	N/A	N/A

United States Page: 11/15

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
bisphenol F diglycidyl ether, isomer mixture	EC50 >1.8 mg/l	Algae	72 hours
	EC50 >1000 mg/l	Daphnia	48 hours
	LC50 2.54 mg/l	Fish	96 hours
	NOEC 0.3 mg/l	Daphnia	21 days
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Acute LC50 2.54 mg/l	Fish	96 hours
phosphorous oxychloride, reaction products with propylene oxide	EC50 82 mg/l	Algae	72 hours
	EC50 131 mg/l	Daphnia	48 hours
	LC50 51 mg/l	Fish	96 hours
	NOEC 32 mg/l	Daphnia	48 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Phenol, styrenated	Acute EC50 3.8 mg/l	Daphnia	48 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
bisphenol F diglycidyl ether, isomer mixture Phenol, styrenated	- OECD 301F		eadily - 28 days eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
bisphenol F diglycidyl ether, isomer mixture Phenol, styrenated	-		-		Not read	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bisphenol F diglycidyl ether, isomer mixture	3.6	-	Low
hexamethylene diacrylate	2.81	-	Low
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	Low
phosphorous oxychloride, reaction products with propylene oxide	2.68	0.8 to 14	Low

Mobility in soil

United States Page	: 12/15
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Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

Section 12. Ecological information

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. 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	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bisphenol F diglycidyl ether, isomer mixture)	(bisphenol F diglycidyl ether, isomer mixture, hexamethylene diacrylate)	(bisphenol F diglycidyl ether, isomer mixture, hexamethylene diacrylate)
Transport hazard class (es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	(bisphenol F diglycidyl ether, isomer mixture)	(bisphenol F diglycidyl ether, isomer mixture)	Not applicable.

Additional information

DOT

: Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.

IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

United States Page: 13/15

Date of issue 7 February 2024 Version 3

Product name STEELGUARD 951 LIGHT GRAY BASE

14. Transport information

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

Section 15. Regulatory information

United States

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

United States - TSCA 5(e) - Substances consent order:

carbon Listed

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

Composition/information on ingredients

Name	%	Classification
bisphenol F diglycidyl ether, isomer mixture	≥10 - ≤19	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B SKIN SENSITIZATION - Category 1
hexamethylene diacrylate	≥5.0 - ≤10	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	≥5.0 - ≤10	SKIN IRRITATION - Category 2 SKIN SENSITIZATION - Category 1B
phosphorous oxychloride, reaction products with propylene oxide	≥5.0 - ≤10	ACUTE TOXICITY (oral) - Category 4
titanium dioxide Phenol, styrenated	≥5.0 - ≤10 ≥5.0 - ≤8.9	CARCINOGENICITY - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
Dodecanedioic acid, polymer with 2,2'-[1,4-butanediylbis (oxymethylene)]bis[oxirane], (chloromethyl)oxirane, 4,4'-(1-methylethylidene)bis[phenol], nonanedioic acid and 2,2'-oxybis	≥1.0 - ≤5.0	EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B

United States Page: 14/15

P	roduct code 00472546		Date of issue 7 February 2024 Version 3			
	Product name STEELGUARD 951 LIGHT GRAY BASE					
S	Section 15. Regulato	ry informa	ation			
	[ethanol] carbon	≥1.0 - ≤5.0	PYROPHORIC SOLIDS - Category 1 SELF-HEATING SUBSTANCES AND MIXTURES - Category 1 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)			

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

Section 16. Other information

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

Health: 3 * Flammability: 1 Physical hazards: 2

(*) - 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: 3 Flammability: 1 Instability: 2

Date of previous issue : 1/24/2024

Organization that prepared

the SDS

Key to abbreviations : ATE = Acute Toxicity Estimate

: EHS

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

(Respiratory tract irritation) - Category 3

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)

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.

United States I
