SAFETY DATA SHEET

Date of issue/Date of revision

Version : 16 December 2023



Europe

: 4

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name	1	STEELGUARD 2458
Product code	:	00321135
Other means of identificati	on	
Not available.		

1.2 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	: Product is not intended, labelled or packaged for consumer use.			

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Product definition : Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Mam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335
Aquatic Chronic 3, H412
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

English (GB)

Europe

Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUAR	D 2458		

SECTION 2: Hazards identification

2.2 Label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Fammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Herendeus ingradiente	 ₱280, P210, P273, P304 + P312, P403 + P233, P501 ■ xylene
Hazardous ingredients Supplemental label elements	 Contains epoxy constituents. May produce an allergic reaction. Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requiren	<u>nents</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Code : 00321135 STEELGUARD 2458 Date of issue/Date of revision

: 16 December 2023

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
x ylene	EC: 215-535-7 CAS: 1330-20-7	≥25 - ≤49	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - ≤8.7	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
bis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	<1.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	<1.0	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1] [2]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

Code : 00321135

Date of issue/Date of revision

: 16 December 2023

STEELGUARD 2458

SECTION 3: Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of 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 recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effect	<u>ts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympt	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immedia	ate medical attention and special treatment needed

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.

Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUAR	D 2458		

SECTION 5: Firefighting measures

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5.1 Extinguishing media Suitable extinguishing	: Use dry chemical, CO ₂ , water spray (fog) or foam.
media	
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Mammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds carbonyl halides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable trainin Evacuate surrounding areas. Keep unnecessary and unprotected personnel entering. Do not touch or walk through spilt material. Shut off all ignition sou flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Pr adequate ventilation. Wear appropriate respirator when ventilation is inadequ on appropriate personal protective equipment.	from irces. No rovide		
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any inf Section 8 on suitable and unsuitable materials. See also the information in "F emergency personnel".			
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, or sewers. Inform the relevant authorities if the product has caused environmer pollution (sewers, waterways, soil or air). Water polluting material. May be h the environment if released in large quantities.	ntal		
6.3 Methods and material for	containment and cleaning up			
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof to explosion-proof equipment. Dilute with water and mop up if water-soluble. A or if water-insoluble, absorb with an inert dry material and place in an appropriate disposal container. Dispose of via a licensed waste disposal contractor.	lternatively,		
English (GB)	Europe	5/18		

Code : 00321 STEELGUARD 2458	135 Date of	f issue/Date of revision	: 16 December 2023	
SECTION 6: Accidental release measures				
Large spill	explosion-proof equipment. sewers, water courses, bas treatment plant or proceed a	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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 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.
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.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUAF	RD 2458		

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Exposure limit values
EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
Absorbed through skin.
STEL: 442 mg/m ³ 15 minutes.
STEL: 100 ppm 15 minutes.
TWA: 221 mg/m ³ 8 hours.
TWA: 50 ppm 8 hours.
EU OEL (Europe, 1/2022). Absorbed through skin.
STEL: 884 mg/m ³ 15 minutes.
STEL: 200 ppm 15 minutes.
TWA: 442 mg/m ³ 8 hours.
TWA: 100 ppm 8 hours.
ACGIH TLV (United States).
TWA: 3 mg/m ³ Form: Respirable
TWA: 10 mg/m ³ Form: Total dust
EU OEL (Europe, 1/2022). Absorbed through skin.
STEL: 384 mg/m ³ 15 minutes.
STEL: 100 ppm 15 minutes.
TWA: 192 mg/m ³ 8 hours.
TWA: 50 ppm 8 hours.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
x ylene	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
-	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
-	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
English (GB) Europe 7/18					

 Code
 : 00321135
 Date of issue/Date of revision

 STEELGUARD 2458
 Date of issue/Date of revision

: 16 December 2023

SECTION 8: Exposure controls/personal protection

				Local
DNEL	Long term Inhalation	12.25 mg/m³	Workers	Systemic
DNEL	Short term Inhalation	12.25 mg/m ³	Workers	Systemic
DNEL			Workers	Systemic
DNEL	Short term Dermal		Workers	Systemic
DNEL			General	Systemic
	-	,	population	-
			[Consumers]	
DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemic
			population	-
			[Consumers]	
DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
	_		population	-
			[Consumers]	
DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
			population	
			[Consumers]	
DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	0.87 mg/m³	General population	
DNEL	Long term Inhalation	4.93 mg/m³	Workers	Systemic
DNEL	Long term Oral	8.13 mg/kg bw/day	General population	
DNEL	Long term Inhalation	56.5 mg/m³	General population	
DNEL	Long term Inhalation	56.5 mg/m³	General population	Systemic
DNEL	Long term Inhalation	192 mg/m³	Workers	Local
DNEL	Long term Inhalation		Workers	Systemic
DNEL	Long term Dermal	226 mg/kg bw/day	General population	
DNEL	Short term Inhalation	226 mg/m ³	General population	Local
DNEL	Short term Inhalation		General population	Systemic
DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
DNEL		384 mg/m³	Workers	Local
DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term InhalationDNELShort term InhalationDNELCong term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELShort term DermalDNELLong term OralDNELShort term OralDNELLong term OralDNELLong term OralDNELLong term DermalDNELLong term OralDNELLong term InhalationDNELLong term InhalationDNELShort term Inhalation	DNELLong term Inhalation12.25 mg/m³DNELShort term Inhalation12.25 mg/m³DNELShort term Dermal8.33 mg/kg bw/dayDNELShort term Dermal8.33 mg/kg bw/dayDNELShort term Dermal3.571 mg/kg bw/dayDNELShort term Oral0.75 mg/kg bw/dayDNELLong term Oral0.75 mg/kg bw/dayDNELShort term Oral0.75 mg/kg bw/dayDNELLong term Inhalation0.87 mg/m³DNELLong term Inhalation56.5 mg/m³DNELLong term Inhalation192 mg/m³DNELLong term Inhalation192 mg/m³DNELLong term Inhalation192 mg/m³DNELShort term Inhalation226 mg/m³DNELShort term Inhalation226 mg/m³DNELLong term Dermal384 mg/kg bw/dayDNELShort term Inhalation384 mg/m³	DNELLong term Inhalation12.25 mg/m³WorkersDNELShort term Inhalation12.25 mg/m³WorkersDNELLong term Dermal8.33 mg/kg bw/dayWorkersDNELShort term Dermal3.571 mg/kg bw/dayWorkersDNELShort term Dermal3.571 mg/kg bw/dayGeneralDNELShort term Dermal3.571 mg/kg bw/dayGeneralDNELShort term Oral0.75 mg/kg bw/dayGeneralDNELLong term Oral0.75 mg/kg bw/dayGeneralDNELLong term Oral0.75 mg/kg bw/dayGeneralDNELLong term Oral0.75 mg/kg bw/dayGeneralDNELLong term Dermal0.75 mg/kg bw/dayGeneralDNELLong term Oral0.5 mg/kg bw/dayGeneralDNELLong term Oral0.57 mg/kg bw/dayGeneral populationDNELLong term Oral0.57 mg/kg bw/dayGeneral populationDNELLong term Oral0.87 mg/m³General populationDNELLong term Inhalation56.5 mg/m³General populationDNELLong term Inhalation192 mg/m³WorkersDNELLong term Inhalation192 mg/m³WorkersDNELLong term Inhalation192 mg/m³WorkersDNELLong term Inhalation226 mg/m³General populationDNELLong term Inhalation226 mg/m³General populationDNELLong term Inhalation226 mg/m³General populationDNELLong term Inhalation

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
xylene	-	Fresh water	0.327 mg/l	-
-	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl] propane	-	Fresh water	0.006 mg/l	Assessment Factors
•	-	Marine water	0.001 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
	-	Soil	0.196 mg/kg dwt	Equilibrium Partitioning
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
English (GB) Europe 8/18				

Code : 00321135 STEELGUARD 2458	Date of issue/Date of revision : 16 December 2023
SECTION 8: Exposu	e controls/personal protection
toluene	-Secondary Poisoning11 mg/kgAssessment Factors-Fresh water0.68 mg/lSensitivity Distribution-Marine water0.68 mg/lSensitivity Distribution-Sewage Treatment Plant13.61 mg/lSensitivity Distribution-Fresh water sediment16.39 mg/kg dwtEquilibrium Partitioning-Marine water sediment16.39 mg/kg dwt-
8.2 Exposure controls	
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 ga vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>res</u>
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 safet showers are close to the workstation location.
Eye/face protection Skin protection	: Chemical splash goggles. Use eye protection according to EN 166.
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, chec 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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use as included in the user's risk assessment.
Gloves	: For prolonged or repeated handling, use the following type of gloves: Not recommended: nitrile rubber
	Recommended: polyvinyl alcohol (PVA), neoprene, natural rubber (latex), Viton ${ m @}$
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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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.

2020/070	
Code : 00321135 STEELGUARD 2458	Date of issue/Date of revision : 16 December 2023
SECTION 8: Exposu	re controls/personal protection
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. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>						
Physical state	: Liquid.					
Colour	: Various					
Odour	: Aromatic.					
Odour threshold	: Not available.					
Melting point/freezing point	is based on data for the	May start to solidify at the following temperature: 103 to 115°C (217.4 to 239°F) This is based on data for the following ingredient: Paraffin waxes and Hydrocarbon waxes, chloro. Weighted average: -75.84°C (-104.5°F)				
Initial boiling point and boiling range	: >37.78°C					
Flammability	: Not available.	Not available.				
Upper/lower flammability or explosive limits	: Greatest known range:	Greatest known range: Lower: 0.8% Upper: 6.7% (xylene)				
Flash point	: Closed cup: 25°C					
Auto-ignition temperature	- : · · · · · · · · · · · · · · · · · ·					
	Ingredient name	°C	°F	Method		
	Mene	432	809.6			
Decomposition temperature	: Stable under recomme	nded storage and	handling cond	itions (see Section 7).		
рН		Not applicable. insoluble in water.				
Viscosity		Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s				
Solubility(ies)	- +					

Media	Result
cold water	Not soluble
artition coefficient: n-octanol/ : N ater	lot applicable.

Vapour pressure

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Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUA	ARD 2458		

SECTION 9: Physical and chemical properties

			Vapour Pressure at 20°C			Vapour pressure at 50°C		sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2				
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenz	ene) Weighte	d averag	e: 0.78co	mpared with
Relative density	:	1.23						
Vapour density	:	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1)						
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Oxidising properties	:	Product does not present an oxidizing hazard.						
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information No additional information.								

SECTION 10: Stabilit	ty and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds carbonyl halides metal oxide/ oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute	e tos	rici	tv
10411	,,		

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-1-amide)	mists		Ŭ	
	LD50 Dermal	Rat	>2000 mg/kg	-
English (GB)	Europe))	I	11/18

Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUAF	RD 2458		

SECTION 11: Toxicological information

toluene	LD50 Oral	Rat	>2000 mg/kg	-
	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	8.39 g/kg 5580 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae				
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

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.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
s-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising

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.
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 toxic	ity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation
toluene	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2		-

Aspiration hazard

English (GB)	Europe	12/18
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Code<th::</th>::16 December 2023STEELGUARD 2458Date of issue/Date of revision::16 December 2023

SECTION 11: Toxicological information

Product/	ingredient name	Result
xylene ethylbenzene toluene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effect	<u>ts</u>	
Inhalation	: May cause respiratory irritation.	
Ingestion	: No known significant effects or c	ritical hazards.
Skin contact	: Causes skin irritation. Defatting	to the skin.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the pl	nysical, chemical and toxicological	<u>characteristics</u>
Inhalation	: Adverse symptoms may include respiratory tract irritation coughing	the following:
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include irritation redness dryness cracking	the following:
Eye contact	: Adverse symptoms may include pain or irritation watering redness	the following:
Delayed and immediate effe	ects as well as chronic effects from	short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects Long term exposure	: Not available.	
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff Not available.	ects	
Conclusion/Summary	: Not available.	
General	: Prolonged or repeated contact ca dermatitis.	an defat the skin and lead to irritation, cracking and/or
Carcinogenicity	: No known significant effects or c	ritical hazards.
Mutagenicity	: No known significant effects or c	
Reproductive toxicity	: No known significant effects or c	ritical hazards.
Other information	: Not available.	
Prolonged or repeated contact	ct may dry skin and cause irritation. S	anding and grinding dusts may be harmful if inhaled.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/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.

Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUAR	D 2458		

SECTION 11: Toxicological information

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - Daphnia magna	48 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	79 % - Readily - 10 days 63 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ylene ethylbenzene bis-[4-(2,3-epoxipropoxi)phenyl]propane N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide) toluene	- - - -	- - - -	Readily Readily Not readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
xylene ethylbenzene N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide) toluene	3.12 3.6 >6 2.73	7.4 to 18.5 79.43 - 8.32	Low Low High Low	

12.4 Mobility in soil

English (GB)	Europe	14/18

STEELGUARD 2458	Code : 00321135	Date of issue/Date of revision	: 16 December 2023
	STEELGUARD 2458		

SECTION 12: Ecological information

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code		Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Packaging			
Methods of disposal		n of waste should be avoided or minimised wherever possible. Waste ould be recycled. Incineration or landfill should only be considered when t feasible.	
Type of packaging		European waste catalogue (EWC)	
Container	15 01 06	mixed packaging	

Special precautions
 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUAR	2458		

14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	Ш	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.		
Tunnel code	: (D/E)		
ADN	The product is only regulated as an environmentally hazardous substance when transported in tank vessels. This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.		
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.		
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.		
14.6 Special pree user	cautions for : 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.		
447.00	Non-nortin . Not explicable		

14.7 Maritime transport in : Not applicable. **bulk according to IMO**

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

English (GB)

Code	: 00321135	Date of issue/Date of revision	: 16 December 2023
STEELGUAR	D 2458		

SECTION 15: Regulatory information

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria
Category

P5c

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Code : 00321135 STEELGUARD 2458	Date of issue/Date of revision: 16 December 2023	
SECTION 16: Other information		
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Irrit. 2 Flam. Liq. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 2 Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	

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