SAFETY DATA SHEET

Date of issue/Date of revision

: 00392237

: 23 October 2023

Version : 3.03



Europe

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

1.1 Product identifier	t identifier
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Product name Product code

Other means of identification

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] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 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	: 00392237	Date of issue/Date of revision	: 23 October 2023
SIGMACO	VER 456 BASE MUNSEL N7.0 -88		

SECTION 2: Hazards identification

2.2 Label elements Hazard pictograms	
Signal word	: Warning
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic 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. Avoid breathing vapour.
Response	: Collect spillage.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
	P280, P210, P273, P261, P391, P501
Hazardous ingredients	: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd., dimers Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy- Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine
Supplemental label elements	: 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 requirem	ents
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 : 00392237

Date of issue/Date of revision

: 23 October 2023

SIGMACOVER 456 BASE MUNSEL N7.0 -88

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
4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd., dimers	EC: 500-180-5 CAS: 67989-52-0	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤18	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 - <10	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]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤1.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Code : 00392237

Date of issue/Date of revision

: 23 October 2023

SIGMACOVER 456 BASE MUNSEL N7.0 -88

SECTION 3: Composition/information on ingredients

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.

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. 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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effect		
Eye contact	es serious eye irritation.	
Inhalation	own significant effects or critical hazards.	
Skin contact	es skin irritation. Defatting to the skin. May cause an allergic	skin reaction.
Ingestion	own significant effects or critical hazards.	
Over-exposure signs/sympt		
Eye contact	rse symptoms may include the following: or irritation ing ess	
Inhalation	pecific data.	
Skin contact	rse symptoms may include the following: on ess ess iss ing	
Ingestion	pecific data.	
4.3 Indication of any immedia	al attention and special treatment needed	
Notes to physician	symptomatically. Contact poison treatment specialist immedia ties have been ingested or inhaled.	ately if large
Specific treatments	ecific treatment.	

Code : 00)392237	Date of issue/Date of revision	: 23 October 2023
SIGMACOVER 4	56 BASE MUNSEL N7.0 -88		

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
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	: Flammable 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 toxic 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 halogenated compounds 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, pro	ptective 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised 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".
6.2 Environmental precautions	: Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
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 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.

English	(GB)
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Code : 00392 SIGMACOVER 456 B	237 ASE MUNSEL N7.0 -88	Date of issue/Date of revision	: 23 October 2023		
SECTION 6: Accidental release measures					
Large spill	•	t risk. Move containers from spill a			

	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	: 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. Do not get in eyes or on skin or clothing. Do not ingest. 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. 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: 00392237Date of issue/Date of revision: 23 October 2023

SIGMACOVER 456 BASE MUNSEL N7.0 -88

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

Product/ingredient name	Exposure limit values
xylene	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.
ethylbenzene	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.
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2022).
	TWA: 152 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	should be made to monitoring standards, such as the following: Europear EN 689 (Workplace atmospheres - Guidance for the assessment of exposu

edures 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
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd., dimers	DNEL	Short term Dermal	4.76 μg/cm²	General population	Local
	DNEL	Long term Dermal	4.76 µg/cm²	General population	Local
	DNEL	Short term Dermal	7.9 µg/cm ²	Workers	Local
	DNEL	Long term Dermal	7.9 µg/cm ²	Workers	Local
	DNEL	Short term Dermal	3.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	5.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	5.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	23.5 mg/m ³	General population	
	DNEL	Long term Inhalation	23.5 mg/m ³	General population	-
	DNEL	Short term Inhalation	39.2 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	39.2 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	39.2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	39.2 mg/m ³	Workers	Systemic
xylene	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
English (GB)	1	1	Europe	<u> </u>	7/17

Code : 00392237

SIGMACOVER 456 BASE MUNSEL N7.0 -88

Date of issue/Date of revision

: 23 October 2023

	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	5			Systemic
		221 mg/m ³	Workers	Systemic
NEL S	Short term Inhalation	442 mg/m ³	Workers	Systemic
NEL L	Long term Inhalation	221 mg/m ³	Workers	Local
NEL S	Short term Inhalation	442 mg/m ³	Workers	Local
		212 mg/kg bw/day	Workers	Systemic
NEL L	Long term Inhalation	65.3 mg/m ³	General population	Local
NEL S	Short term Inhalation	260 mg/m ³	General population	Local
NEL S	Short term Inhalation	260 mg/m ³	General population	Systemic
	Long term Inhalation	221 mg/m ³	Workers	Local
NEL L	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
NEL L	Long term Inhalation	65.3 mg/m ³	General population	Systemic
NEL L	Long term Dermal	125 mg/kg bw/day	General population	Systemic
NEL L	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
NEL L	Long term Inhalation	221 mg/m ³	Workers	Systemic
NEL S	Short term Inhalation	442 mg/m ³	Workers	Local
NEL S	Short term Inhalation	442 mg/m ³	Workers	Systemic
NEL L	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
NEL L	Long term Inhalation	15 mg/m ³	General population	Systemic
NEL L	Long term Inhalation	77 mg/m ³	Workers	Systemic
NEL L	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
NEL S	Short term Inhalation	293 mg/m ³	Workers	Local
MEL L	Long term Inhalation	442 mg/m ³	Workers	Local
MEL S	Short term Inhalation	884 mg/m ³	Workers	Systemic
NEL L	Long term Inhalation	55 mg/m ³	General population	Local
NEL L	Long term Inhalation	310 mg/m ³	Workers	Local
NEL L	Long term Inhalation	0.055 mg/m ³	General population	Local
		-		
NEL L	Long term Inhalation	0.308 mg/m ³	Workers	Local
	NEL NEL NEL	NELLong term OralNELLong term InhalationNELShort term InhalationNELShort term InhalationNELLong term InhalationNELLong term InhalationNELLong term InhalationNELLong term InhalationNELShort term InhalationNELShort term InhalationNELShort term InhalationNELLong term InhalationNELLong term InhalationNELLong term OralNELLong term DermalNELLong term InhalationNELLong term InhalationNELLong term OralNELLong term InhalationNELLong term OralNELLong term InhalationNELLong term Inhalation	NEL NEL Long term Inhalation NEL Long term Inhalation NEL Long term Inhalation NEL Long term Inhalation NEL Long term Inhalation NEL Long term Inhalation NEL Short term Inhalation NEL Long term Inhalation NEL Short term Inhalation NEL Short term Inhalation NEL Short term Inhalation NEL Long term Oral NEL 	NELLong term Oral12.5 mg/kg bw/dayGeneral populationNELShort term Inhalation221 mg/m³WorkersNELLong term Inhalation442 mg/m³WorkersNELLong term Inhalation221 mg/m³WorkersNELLong term Inhalation442 mg/m³WorkersNELLong term Inhalation442 mg/m³WorkersNELLong term Inhalation65.3 mg/m³General populationNELShort term Inhalation260 mg/m³General populationNELShort term Inhalation260 mg/m³General populationNELLong term Oral12.5 mg/kg bw/dayGeneral populationNELLong term Inhalation221 mg/m³WorkersNELLong term Inhalation221 mg/m³General populationNELLong term Dermal125 mg/kg bw/dayGeneral populationNELLong term Inhalation221 mg/m³WorkersNELShort term Inhalation442 mg/m³WorkersNELShort term Inhalation442 mg/m³WorkersNELShort term Inhalation1.6 mg/kg bw/dayGeneral populationNELLong term Dermal1.6 mg/kg bw/dayGeneral populationNELLong term Inhalation293 mg/m³WorkersNELShort term Inhalation293 mg/m³WorkersNELLong term Inhalation25 mg/m³WorkersNELLong term Inhalation55 mg/m³General populationNELLong term Inhalation0.055 mg

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	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.156 mg/kg dwt	-
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls

English (GB)	Europe	8/17
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (E	EU)
2020/878	

Code : 00392237 SIGMACOVER 456 BASE MU	Date of issue/Date of revision : 23 October 2023 NSEL N7.0 -88
SECTION 8: Exposur	e controls/personal protection
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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measured	ures
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. Use eye protection according to EN 166.
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. 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	: 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. 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.
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.

Code	: 00392237	Date of issue/Date of revision	: 23 October 2023
SIGMACOVE	ER 456 BASE MUNSEL N7.0 -88		

SECTION 9: Physical and chemical properties

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

No additional information.								
0.2 Other information								
Median particle size	:	Not applicable.						
article characteristics	-							
Oxidising properties		Product does not pre	-		hazard			
Explosive properties	1	The product itself is vapour or dust with a			the formatic	n of an e	xplosible n	nixture of
Vapour density	1	Highest known value	•	, ,		-	-	. ,
Relative density	:	1.41						
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	nylbenze	ene) Weight	ed avera	ge: 0.79co	mpared wit
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2			
		_				Hg		
		Ingredient name	mm Hg		Method	mm	kPa	Method
• •				r Press	ure at 20°C	Vai	oour press	sure at 50°
Vapour pressure	:							
Partition coefficient: n-octanol water	/:	Not applicable.						
cold water		Not soluble						
Media		Result						
Solubility(ies)	:	Descrift						
Viscosity	:	Kinematic (40°C): >2	21 mm²/s					
pH	:	Not applicable. insol		ter.				
Decomposition temperature	:	Stable under recom		•	nd handling	condition	s (see Sec	ction 7).
				_				
		2-methylpropan-1-ol		415	779		Methou	
Auto ignition temperature		Ingredient name		°C	°F		Method	
Flash point Auto-ignition temperature		Closed cup: 26°C						
		Closed ours 26°C						
Upper/lower flammability or explosive limits	1	Greatest known rang	ge: Lower:	1.7% l	Jpper: 10.9%	% (2-meth	ylpropan-´	1-ol)
Flammability		Not available.						
boiling range								
Initial boiling point and		(-139.2°F) >37.78°C						
		on data for the follow						
Melting point/freezing point	-	May start to solidify	at the follo	wing ter	mperature: -	94.9°C (-'	138.8°F) T	his is based
Odour threshold	-	Not available.						
Odour	1	Characteristic.						
Colour	1.1	Grey.						
Physical state		Liquid.						

Code	: 00392237	Date of issue/Date of revision	: 23 October 2023	
SIGMACOVER 456 BASE MUNSEL N7.0 -88				

SECTION 10: Stability 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 halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

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

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all	UN		<u> </u>

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	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Octadecanoic acid, 12-hydroxy-, reaction	LC50 Inhalation Dusts and	Rat	5.05 mg/l	4 hours
products with ethylenediamine	mists		U U	
	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

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	

<u>Sensitisation</u>

Product/ingredient name	Route of exposure	Species	Result
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	skin	Guinea pig	Sensitising

Conclusion/Summary

Skin

: There are no data available on the mixture itself.

English (GB)	Europe	11/17

Code SIGMACOVE	: 00392237 R 456 BASE MUNSEL N7.0 -88	Date of issue/Date of revision	: 23 October 2023
		(°	

SECTION 11: Toxicological information

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 toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene 2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Produ	ct/ingredient name	Result	
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health ef	fects		
Inhalation	: No known significant effects or cri	tical hazards.	
Ingestion	: No known significant effects or cri	tical hazards.	
Skin contact	: Causes skin irritation. Defatting to	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
Eye contact	: Causes serious eye irritation.		
Symptoms related to the	physical, chemical and toxicological	<u>characteristics</u>	
Inhalation	: No specific data.		
Ingestion	: No specific data.		
Skin contact	: Adverse symptoms may include th irritation redness dryness cracking	ne following:	
Eye contact	: Adverse symptoms may include th pain or irritation watering redness	ne following:	
Delayed and immediate e	effects as well as chronic effects from	<u>short and long-term exposure</u>	
Short term exposure			

 Code
 <th::00392237</th>
 Date of issue/Date of revision
 : 23 October 2023

 SIGMACOVER 456 BASE MUNSEL N7.0 -88
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SECTION 11: Toxicological information

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Potential immediate effects	Not available.
Potential delayed effects	Not available.
<u>Long term exposure</u>	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effe	ts
Not available.	
Conclusion/Summary	Not available.
General	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	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.
Other information	Not available.

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.

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	-
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >10 mg/l	Daphnia - <i>Daphnia</i> <i>magna</i>	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Code : 00392237

SIGMACOVER 456 BASE MUNSEL N7.0 -88

Date of issue/Date of revision

: 23 October 2023

SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	- 301D Ready Biodegradability - Closed Bottle Test	79 % - Readily - 10 days 22 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓Jene ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	- -	- - -	Readily Readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
 ✓ylene ethylbenzene 2-methylpropan-1-ol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine 	3.12	7.4 to 18.5	Low
	3.6	79.43	Low
	1	-	Low
	>5.86	-	High

12.4 Mobility in soil

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

English (GB)	Europe	14/17
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Code : 00392237 SIGMACOVER 456 BASE MUNSEL N7.0 -88 Date of issue/Date of revision : 2

: 23 October 2023

SECTION 13: Disposal considerations

: Yes.

Hazardous waste

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

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06	mixed packaging
Special precautions	taken when handling e Empty containers or lir residues may create a Do not cut, weld or grir	ontainer must be disposed of in a safe way. Care should be emptied containers that have not been cleaned or rinsed out. hers may retain some product residues. Vapour from product highly flammable or explosive atmosphere inside the container. hd used containers unless they have been cleaned thoroughly rsal of spilt material and runoff and contact with soil, waterways,

14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
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	III	11	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with fatty acids, C18-unsatd. , dimers)	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
ADN	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.

English (GB)	Europe	15/17
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Code SIGMACOVE	: 00392237 ER 456 BASE MUNSEL N7.0 -88	Date of issue/Date of revision	: 23 October 2023
14. Transport information			
ΙΑΤΑ	: The environmentally hazardo regulations.	us substance mark may appear if requi	red by other transportation

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

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

: Not applicable. **Explosive precursors**

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c E2	

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

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

Code : 00392237	Date of issue/Date of revision	: 23 October 2023
SIGMACOVER 456 BASE MUNSEL N7.0 -88		

SECTION 16: Other information

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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Acute Tex. 4	
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
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
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

<u>History</u>	
Date of issue/ Date of revision	: 23 October 2023
Date of previous issue	: 22 February 2023
Prepared by	: EHS
Version	: 3.03

Disclaimer

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