Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET



INERTA PRIMER 5 - All variants

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

1.1 Product identifier Product name

: INERTA PRIMER 5 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

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 Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373 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.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

: Danger

: H226 - Flammable liquid and vapour.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

SECTION 2: Hazards identification

SECTION 2: Hazards	IC	
Prevention	-	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
Response	1	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	;	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	1	Contains: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin; Xylene and iso-butanol
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	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hererde which de		

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	EC: 500-033-5 CAS: 25068-38-6	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

	CAS: 100-41-4 Index: 601-023-00-4		(hearing organs) (oral, inhalation) Asp. Tox. 1, H304		
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤2.3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤1.4	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 See Section 16 for the full text of the H statements declared above.	-	[1]

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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Date of issue/Date of revision	: 23/02/2024 Date of previous issue : 10/08/2022 Version : 8 3/32

SECTION 4: First aid	i illeasules
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	ns and effects, both acute and delayed
Over-exposure signs/symp	
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immed	iate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting 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	from 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, wit 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 dioxide carbon monoxide sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident in

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: Fire-fighters should wear appropriate protective equipment and self-contained

equipment for fire-fighters 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.

Date of issue/Date of revision	: 23/02/2024	Date of previous issue	: 10/08/2022	Version : 8	4/32
INERTA PRIMER 5 - All variants				Label No :7766	9

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive 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. Do not breathe 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.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 breathe vapour or mist. Do not ingest. 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 second secon	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

: 23/02/2024 Date of previous issue

SECTION 7: Handling and storage

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.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

		1.1.1.1.1.1.1.1	
Reco	mmen	datior	IS

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
iso-butanol	Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol
	(all isomers except 2-methyl-2-propanol)]
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 150 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	PEAK: 600 mg/m ³ , 4 times per shift, 15 minutes.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m ³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m ³ , 8 times per shift, 5 minutes.
Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
	skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
ing hutanal	STEL: 442 mg/m ³ 15 minutes.
iso-butanol	Limit values (Belgium, 5/2021).
	TWA: 50 ppm 8 hours.
Ethylhanzana	TWA: 154 mg/m ³ 8 hours.
Ethylbenzene	Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 551 mg/m ³ 15 minutes.
ate of issue/Date of revision : 23/02/202	4 Date of previous issue : 10/08/2022 Version : 8 6/32
IERTA PRIMER 5 - All variants	Label No : 7669

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Xylene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene (mixture of isomers), pure] Absorbed through skin. Limit value 8 hours: 221 mg/m ³ 8 hours. Limit value 15 min: 442 mg/m ³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes.
Ethylbenzene	Limit value 8 hours: 50 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m ³ 8 hours. Limit value 15 min: 545 mg/m ³ 15 minutes.
Xylene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
iso-butanol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 231 mg/m ³ 15 minutes. STELV: 75 ppm 15 minutes. ELV: 154 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m ³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m ³ 8 hours. ELV: 100 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia). ELV: 100 ppm ELV: 400 mg/m ³
Xylene	Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
Ethylbenzene	Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes.
Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin. TWA: 200 mg/m ³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m ³ 15 minutes.
iso-butanol	STEL: 90.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [Butanol (all isomers)] Absorbed through skin. TWA: 300 mg/m ³ 8 hours. TWA: 97.5 ppm 8 hours. STEL: 600 mg/m ³ 15 minutes.
Ethylbenzene	STEL: 195 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 200 mg/m ³ 8 hours.
Date of issue/Date of revision : 23/02/2024	Date of previous issue :10/08/2022 Version :8 7/32

ECTION 8: Exposure controls/	personal protection
Solvent naphtha (petroleum), light aromatic	TWA: 45.4 ppm 8 hours. STEL: 500 mg/m ³ 15 minutes. STEL: 113.5 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). [Nafta solvents] TWA: 200 mg/m ³ 8 hours. STEL: 1000 mg/m ³ 15 minutes.
Xylene	Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin. TWA: 25 ppm 8 hours.
	TWA: 25 ppm o nours. TWA: 109 mg/m ³ 8 hours. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
iso-butanol	Working Environment Authority (Denmark, 6/2022). [Butanol, all isomers] Absorbed through skin. CEIL: 50 ppm
Ethylbenzene	CEIL: 150 mg/m ³ Working Environment Authority (Denmark, 6/2022). Absorbed through skin. Carcinogen.
	TWA: 50 ppm 8 hours. TWA: 217 mg/m ³ 8 hours. STEL: 434 mg/m ³ 15 minutes.
Xylene	STEL: 100 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin.
	TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m ³ 15 minutes.
iso-butanol	TWA: 200 mg/m ³ 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).
Ethylbenzene	TWA: 150 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values
	TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
Ethylbenzene	STEL: 442 mg/m ³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm % bourg
	TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
Xylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Xylenes] Absorbed through skin.
	STEL: 440 mg/m ³ 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
iso-butanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Butanols] Absorbed through skin. TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours. STEL: 75 ppm 15 minutes. STEL: 230 mg/m ³ 15 minutes.
te of issue/Date of revision : 23/02/2024	Date of previous issue : 10/08/2022 Version : 8 8/32

SECTION 8: Exposure controls/personal protection Institute of Occupational Health, Ministry of Social Affairs Ethylbenzene (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 880 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs Solvent naphtha (petroleum), light aromatic (Finland, 10/2020). TWA: 100 mg/m³ 8 hours. **Xylene** Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, pure] Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. iso-butanol Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) TWA: 50 ppm 8 hours. TWA: 150 mg/m³ 8 hours. Ministry of Labor (France, 10/2022). Absorbed through skin. Ethylbenzene Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 20 ppm 8 hours. TWA: 88.4 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Solvent naphtha (petroleum), light aromatic Ministry of Labor (France, 10/2022). [hydrocarbons C6-C12] Notes: Permissible limit values (circulars) TWA: 1000 mg/m³ 8 hours. Form: Vapour STEL: 1500 mg/m³ 15 minutes. Form: Vapour **Xylene** TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through skin. TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)] Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes. iso-butanol TRGS 900 OEL (Germany, 6/2022). TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³, 4 times per shift, 15 minutes. Ethylbenzene TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 88 mg/m³ 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes. TWA: 88 mg/m³ 8 hours. TWA: 20 ppm 8 hours.

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Xylene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 650 mg/m ³ 15 minutes.
iso-butanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 300 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes. STEL: 300 mg/m ³ 15 minutes.
Ethylbenzene	Presidential Decree 307/1986: Occupational exposure limit
5	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m³ 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m ³ 15 minutes.
Xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture
	of isomers] Absorbed through skin. TWA: 221 mg/m³ 8 hours.
	PEAK: 442 mg/m³ 15 minutes.
	PEAK: 100 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 442 mg/m ³ 8 hours.
	PEAK: 884 mg/m ³ 15 minutes.
	PEAK: 200 ppm 15 minutes. TWA: 100 ppm 8 hours.
Yulono	
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 109 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
iso-butanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
	[butanol, all isomers, except n-butanol] Absorbed through
	skin.
	STEL: 150 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
5	Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
	through skin. Notes: EU derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m ³ 15 minutes.
iso-butanol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 50 ppm 8 hours. OELV-8hr: 150 mg/m ³ 8 hours.
	OELV-011. 150 mg/m 8 hours. OELV-15min: 75 ppm 15 minutes.
	OELV-15min: 225 mg/m ³ 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
Date of issue/Date of revision ::	23/02/2024 Date of previous issue : 10/08/2022 Version : 8 10/32

INERTA PRIMER 5 - All variants

Label No : 77669

	OELV-8hr: 442 mg/m ³ 8 hours. OELV-15min: 200 ppm 15 minutes. OELV-15min: 884 mg/m ³ 15 minutes.
Xylene	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). [Xylenes, mixed isomers, pure] Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 221 mg/m ³ 8 hours.
Ethylbenzene	Short Term: 100 ppm 15 minutes. Short Term: 442 mg/m ³ 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 100 ppm 8 hours. 8 hours: 442 mg/m ³ 8 hours. Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m ³ 15 minutes.
Kylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Xylenes] Absorbed through skin. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
so-butanol	STEL: 442 mg/m ³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Butylalcohol] TWA: 10 mg/m ³ 9 hours
Ethylbenzene	TWA: 10 mg/m ³ 8 hours. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
(ylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours.
so-butanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 10 mg/m ³ 8 hours.
Ethylbenzene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
Xylene .	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [xylenes, mixed isomers, pure] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
te of issue/Date of revision	: 23/02/2024 Date of previous issue : 10/08/2022 Version : 8 11/

1		
	Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational
		exposure limit values
		TWA: 50 ppm 8 hours.
		TWA: 221 mg/m ³ 8 hours.
		STEL: 100 ppm 15 minutes.
		STEL: 442 mg/m ³ 15 minutes.
	Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list
		of indicative occupational exposure limit values
		TWA: 100 ppm 8 hours.
		TWA: 442 mg/m ³ 8 hours.
		STEL: 200 ppm 15 minutes.
		STEL: 884 mg/m ³ 15 minutes.
	Xylene	Ministry of Social Affairs and Employment, Legal limit values
		(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed
		through skin.
		OEL, 8-h TWA: 210 mg/m ³ 8 hours.
		STEL,15-min: 442 mg/m^3 15 minutes.
		STEL,15-min: 100 ppm 15 minutes.
		OEL, 8-h TWA: 47.5 ppm 8 hours.
	Ethylbenzene	Ministry of Social Affairs and Employment, Legal limit values
	, , , , , , , , , , , , , , , , , , ,	(Netherlands, 12/2022). Absorbed through skin.
		OEL, 8-h TWA: 215 mg/m ³ 8 hours.
		STEL,15-min: 430 mg/m ³ 15 minutes.
		STEL,15-min: 97.3 ppm 15 minutes.
		OEL, 8-h TWA: 48.6 ppm 8 hours.
	Xylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers]
	Aylene	Absorbed through skin. Notes: indicative limit value
		TWA: 25 ppm 8 hours.
		TWA: 20 ppm o hours. TWA: 108 mg/m ³ 8 hours.
	iso-butanol	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
		skin.
		CEIL: 75 mg/m ³
	Ethylbenzene	CEIL: 25 ppm FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through
		skin. Carcinogen. Notes: indicative limit value
		TWA: 5 ppm 8 hours.
		TWA: 20 mg/m ³ 8 hours.
	Yesterne.	-
	Xylene	Regulation of the Minister of Family, Labor and Social Policy
		of 18 February 2021, regarding the highest permissible
		concentrations and values of agents harmful to health in the
		work environment (Journal of Laws 2021, item 325) (Poland,
		2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed
		through skin.
		TWA: 100 mg/m ³ 8 hours.
		STEL: 200 mg/m ³ 15 minutes.
	iso-butanol	Regulation of the Minister of Family, Labor and Social Policy
		of 18 February 2021, regarding the highest permissible
		concentrations and values of agents harmful to health in the
		work environment (Journal of Laws 2021, item 325) (Poland,
		2/2021). Absorbed through skin.
		TWA: 100 mg/m ³ 8 hours.
		STEL: 200 mg/m ³ 15 minutes.
	Ethylbenzene	Regulation of the Minister of Family, Labor and Social Policy
		of 18 February 2021, regarding the highest permissible
		concentrations and values of agents harmful to health in the
		work environment (Journal of Laws 2021, item 325) (Poland,
		2/2021). Absorbed through skin.
		TWA: 200 mg/m ³ 8 hours.
		STEL: 400 mg/m ³ 15 minutes.
D	bate of issue/Date of revision : 23/02/2024	Date of previous issue : 10/08/2022 Version : 8 12/32
1		

SECTION 8: Exposure controls/personal protection **Xylene** Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. iso-butanol Portuguese Institute of Quality (Portugal, 11/2014). TWA: 50 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). Ethylbenzene TWA: 20 ppm 8 hours. **Xylene** HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin. VLA: 221 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. iso-butanol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 100 mg/m³ 8 hours. VLA: 33 ppm 8 hours. Short term: 200 mg/m³ 15 minutes. Short term: 66 ppm 15 minutes. Ethylbenzene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 442 mg/m³ 8 hours. VLA: 100 ppm 8 hours. Short term: 884 mg/m³ 15 minutes. Short term: 200 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Solvent naphtha (petroleum), light aromatic additions (Romania, 3/2021). [Solvent naphtha] Absorbed through skin. VLA: 100 mg/m³ 8 hours. Short term: 200 mg/m³ 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). **Xylene** [xylene, mixed isomers] Absorbed through skin. TWA: 221 mg/m³, (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m³, (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. iso-butanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl alkohols] TWA: 310 mg/m³, (Butyl alkohols) 8 hours. TWA: 100 ppm, (Butyl alkohols) 8 hours. Ethylbenzene Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 442 ma/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. Regulation on protection of workers from the risks related to

TWA: 310 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 310 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Ethylbenzene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

Xylene

iso-butanol

Date of issue/Date of revision : 23/02/2024 : 10/08/2022 Version :8 13/32 Date of previous issue **INERTA PRIMER 5 - All variants** Label No :77669

TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

exposure to chemical substances at work (Slovenia, 5/2021).

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).

[xylene (mixture of isomers)] Absorbed through skin.

KTV: 442 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.

SECTION 8: Exposure	controls/personal protection
	KTV: 884 mg/m ³ , 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes.
Xylene	National institute of occupational safety and health (Spain,
, cylone	4/2022). [Xylene, mixture of isomers] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
iso-butanol	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 50 ppm 8 hours.
Ethylhonzono	TWA: 154 mg/m ³ 8 hours.
Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Xylene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). [xylene] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
iso-butanol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 250 mg/m ³ 15 minutes.
Ethylbenzene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
Vulana	
Xylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
	through skin. TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m ³ 15 minutes.
iso-butanol	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 150 mg/m ³ 15 minutes.
Ethylbenzene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 220 mg/m ³ 15 minutes.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
te e l'este e el	STEL: 100 ppm 15 minutes.
iso-butanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m ³ 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m ³ 8 hours.
Ethylbenzeno	TWA: 50 ppm 8 hours.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
ate of issue/Date of revision	: 23/02/2024 Date of previous issue : 10/08/2022 Version : 8 14/32

through skin.
STEL: 552 mg/m ³ 15 minutes.
STEL: 125 ppm 15 minutes.
TWA: 100 ppm 8 hours.
TWA: 441 mg/m ³ 8 hours.
EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
through skin.
STEL: 384 mg/m ³ 15 minutes.
TWA: 191 mg/m ³ 8 hours.
TWA: 50 ppm 8 hours.
STEL: 100 ppm 15 minutes.
EH40/2005 WELs (United Kingdom (UK), 1/2020).
STEL: 2.5 mg/m ³ 15 minutes.
STEL: 2 ppm 15 minutes.
TWA: 2 ppm 8 hours.
TWA: 2.5 mg/m ³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
Xylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
Xylene	 Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	 Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.
No exposure indices known.	
Xylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

In urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, atmond acid [in urine]. Sampling time: end of the shift. No exposure indices known. No exposure indices known. No exposure indices known. Xylene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/I, methylhippuricacid [in urine]. Sampling time: a end of the work shift. Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) No exposure indices known. Xylene Viene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5 mmol/I, methylhippuricacid [in urine]. Sampling time: a end of the work shift at the end of the working week or exposure period. No exposure indices known. DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers urine]. Sampling time: end of exposure or end of shift. Ethylbenzene DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift. No exposure indices known. Xylene Xylene S20202. (Il. 6.) ITM Decree (Hungary, 12/2022) [Xylene]	ECTION 8: Exposure contro	· · ·
No exposure indices known. Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) (Xylene] Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) (Xylene] Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) No exposure indices known. Xylene Xylene Institute of Cocupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period. No exposure indices known. Xylene Zylene DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers virine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers virine]. Sampling time: of exposure or end of shift. TRGS 903 - BEI Values (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). Ethylbenzene DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). Ethylbenzene DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). Ethylbenzene DFG SEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic [in urine]. Sampling time: and of exposure or end of shift. TRGS 903 - BEI Values (Germany, 7/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [i		Biological limit values: 1500 mg/g creatinine, almond acid [in
No exposure indices known. Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) (Xylene) Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) (Xylene) Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) No exposure indices known. Xylene Xylene DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers vork shift at the end of the working week or exposure period. No exposure indices known. Xylene Xylene DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers virine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI: 2000 mg/l, methylhippuric acid (louric acid) (all isomers virine]. Sampling time: end of exposure or end of shift. Ethylbenzene DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). Ethylbenzene DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). Ethylbenzene Set 2000 mg/l, methylhippuric acid [in urine]. Sampling time: of exposure or end of shift. TRGS 903 - BEI Values (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) No exposure indices	No exposure indices known.	
Xylene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: a end of the work shift. Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) No exposure indices known. Xylene Xylene DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers vork shift at the end of the working week or exposure period. No exposure indices known. DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers vories: danger from percutaneous absorption (see p. 211 a p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers vories: Surine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers vorine]. Sampling time: end of exposure or end of shift. Ethylbenzene DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [xylene] BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic [in urine]. Sampling time: end of exposure or end of shift. No exposure indices known. S/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] SEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the shift. BEI: 1500 mg/	No exposure indices known.	
(Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: a end of the work shift. Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) No exposure indices known. Xylene DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers votes: danger from percutaneous absorption (see p. 211 a p. 228). BEI: 2000 mg/l, methylhippuric acid (louric acid) (all isomers unine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 7/2022) [Xylene (all isomers unine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers unine]. Sampling time: end of exposure or end of shift. Ethylbenzene DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene] BEI: 250 mg/g creatinine, mandelic acid [lus phenylglyoxylic [lin urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene] BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic [lin urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [xylene] BEI: 250 mg/g creatinine, mandelic acid [lin urine]. Sampling time: end of exposure or end of shift. <tr< td=""><td>No exposure indices known.</td><td></td></tr<>	No exposure indices known.	
end of the work shift.EthylbenzeneInstitute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.No exposure indices known.DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers Notes: danger from percutaneous absorption (see p. 211 a p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers; urine]. Sampling time: end of exposure or end of shift.EthylbenzeneDFG BEI-values list (Germany, 7/2022) [Xylene (all isom BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: of exposure or end of shift.EthylbenzeneDFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic [in urine]. Sampling time: end of exposure or end of shift.TRGS 903 - BEI Values (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic [in urine]. Sampling time: end of exposure or end of shift.TRGS 903 - BEI Values (Germany, 7/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic [in urine]. Sampling time: end of exposure or end of shift.No exposure indices known.\$/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.Ethylbenzene\$/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the shift. BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the	Xylene	
(Finland, 9/2020) BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.No exposure indices known.DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers Notes: danger from percutaneous absorption (see p. 211 a p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers of exposure or end of shift.EthylbenzeneDFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: of exposure or end of shift.EthylbenzeneDFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2500 mg/g creatinine, mandelic acid plus phenyl glyoxylic [in urine]. Sampling time: end of exposure or end of shift.No exposure indices known.XyleneXylene5/2020. (ll. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the shift. BEI: 1100 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the shift. BEI: 1100 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the shift. BEI: 1100 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the shift. BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.No exposure		
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BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling at the end of the working week; at the end of the shift. BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of th shift.No exposure indices known.NAOSH (Ireland, 1/2011) [Xylene]	Xylene	BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 μmol/mmol creatinine, methylhippuric acid [in urine].
Xylene NAOSH (Ireland, 1/2011) [Xylene]	Ethylbenzene	BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time at the end of the working week; at the end of the shift. BEI: 1110 μmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the
	No exposure indices known.	
	Xylene	BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure
exposure to the substance but the quantitative interpretation of measurement is ambiguous. These analytes should be used a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the	Ethylbenzene	BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air].
ate of issue/Date of revision : 23/02/2024 Date of previous issue : 10/08/2022 Version : 8	te of issue/Date of revision : 23/02/2	2024 Date of previous issue : 10/08/2022 Version : 8 16/32

INERTA PRIMER 5 - All variants

	BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Vo exposure indices known.	
lo exposure indices known.	
lo exposure indices known.	
Io exposure indices known.	
No exposure indices known.	
Kylene	Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine] Sampling time: end of shift.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxyl acid [in urine]. Sampling time: end of shift.
Kylene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end shift.
Ethylbenzene	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling timend of the week.
Kylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work sh BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 μmol/l, sum of 2,3,4-methylhippuroic acids [in urine] Sampling time: at the end of exposure or work shift. BLV: 14.6 μmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 µmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 µmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shi long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure:

INERTA PRIMER 5 - All variants

	after several work shifts. BLV: 10590 µmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long- term exposure: after several work shifts. BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
Xylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.
Xylene	National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
No exposure indices known.	
Xylene	SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/I, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Ethylbenzene	SUVA (Switzerland, 1/2023) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.
Xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
procedures European Stan assessment of values and me atmospheres - of exposure to (Workplace atr for the measure	uld be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

DNELs/DMELs

required.

Product/ingredient name	Туре	Exposure	Value	Population	Effec	ts
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local	
	DNEL	Inhalation Short term	260 mg/m ³	population General	Local	
	DINEL	Inhalation	200 mg/m	population	LUCAI	
	DNEL	Short term	260 mg/m ³	General	Systemic	
	DNEL	Inhalation Long term	221 mg/m ³	population Workers	Local	
	DINCE	Inhalation	22 i mg/m	WORKEIS	LUCAI	
	DNEL	Long term Oral	12.5 mg/	General	Systemic	
	DNEL	Long term	kg bw/day 65.3 mg/m³	population General	Systemic	
	DINEL	Inhalation	00.0 mg/m	population	Cysterino	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic	
	DNEL	Long term Dermal	bw/day 212 mg/kg	population Workers	Systemic	
			bw/day			
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic	
	DNEL	Short term	442 mg/m ³	Workers	Local	
	DNEL	Inhalation Short term	442 mg/m ³	Workers	Systemic	
	DINEL	Inhalation	442 mg/m	WOIKEIS	Systemic	
so-butanol	DNEL	Long term	55 mg/m³	General	Local	
	DNEL	Inhalation Long term	310 mg/m ³	population Workers	Local	
	DINEL	Inhalation	o to mg/m	Workers	LUCAI	
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic	
	DNEL	Long term	bw/day 15 mg/m³	population General	Systemic	
		Inhalation		population		
	DNEL	Long term	77 mg/m³	Workers	Systemic	
	DNEL	Inhalation Long term Dermal	180 mg/kg	Workers	Systemic	
	DNEL	Short term	bw/day 293 mg/m³	Workers		
	DINEL	Inhalation	295 mg/m	WOIKEIS	Local	
	DMEL	Long term	442 mg/m ³	Workers	Local	
	DMEL	Inhalation Short term	884 mg/m³	Workers	Systemic	
	DIVICE	Inhalation	oo ring/iii	V on one	Cyclonic	
Trizinc bis(orthophosphate)	DNEL	Long term Oral	0.83 mg/	General	Systemic	
	DNEL	Long term	kg bw/day 2.5 mg/m³	population General	Systemic	
		Inhalation	_	population		
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic	
	DNEL	Long term Dermal	83 mg/kg	General	Systemic	
	DNE	-	bw/day	population		
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic	
Solvent naphtha (petroleum), light	DNEL	Long term	0.41 mg/m ³	General	Systemic	
aromatic	DNEL	Inhalation Long term	1.9 mg/m ³	population Workers	Systemic	
		Inhalation			-	
	DNEL	Long term Inhalation	178.57 mg/ m ³	General population	Local	
	DNEL	Short term	640 mg/m ³	General	Local	
		Inhalation		population		
	DNEL	Long term Inhalation	837.5 mg/ m³	Workers	Local	
	DNEL	Short term	1066.67	Workers	Local	
		Inhalation	mg/m^3	Concert	Current and	
	DNEL	Short term Inhalation	1152 mg/ m³	General population	Systemic	
				12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

		DNEL	Short term Inhalation	1286.4 mg/ m ³	Workers	Systemic
PNECs			•			
No PNECs available						
.2 Exposure controls						
Appropriate engineering controls	ver cor cor	ntilation or ntaminants ntrols also	a adequate ventilat other engineering s below any recom need to keep gas its. Use explosior	controls to keep mended or state vapour or dust	o worker expos utory limits. Th concentrations	ure to airborne e engineering
Individual protection measu	ures					
Hygiene measures	bef Ap Co cor	ore eating propriate t ntaminate	echniques should d work clothing sh	ng the lavatory a be used to remo ould not be allov eusing. Ensure	and at the end ove potentially wed out of the v	emical products, of the working perioc contaminated clothin workplace. Wash stations and safety
Eye/face protection	ass gas unl gog	sessment ses or dus ess the as	indicates this is ne ts. If contact is po sessment indicate or face shield. If i	cessary to avoid ssible, the follow as a higher degr	d exposure to li wing protection ee of protectior	be used when a risk quid splashes, mists should be worn, n: chemical splash ace respirator may b
Skin protection						
Hand protection	be this che sho diff sev est	worn at al s is necess eck during buld be no erent for c veral subs imated.	I times when hance sary. Considering use that the glove ted that the time to lifferent glove mar tances, the protec	ling chemical pr the parameters are still retain breakthrough f hufacturers. In t tion time of the g	oducts if a risk specified by th ing their protec for any glove m he case of mixi gloves cannot b	aterial may be tures, consisting of
			ations:Wear su akthrough time):	0	thickness > () 3 mm
		,	eakthrough time):	0		
		•	before breaks and		•	
Body protection	: Per bei bef we dis Eur	rsonal pro ng perforr ore handli ar anti-sta charges, c ropean Sta	tective equipment ned and the risks ng this product. V tic protective cloth	for the body sho nvolved and sho Vhen there is a r ing. For the gre lude anti-static c or further informa	ould be selected ould be approver isk of ignition f atest protection overalls, boots a	d based on the task ed by a specialist rom static electricity n from static and gloves. Refer to
Other skin protection	sel	ected bas	ootwear and any a ed on the task bei a specialist before	ng performed ar	nd the risks invo	ures should be olved and should be
Respiratory protection	apı res ası	propriate s	tandard or certific otection program	ation. Respirato	ors must be use	irator that meets the ed according to a g, and other importa
		• •	oray application):	AP		
Environmental exposure controls	: Em ens In s	sure they a some case	om ventilation or w comply with the re-	ork process equ quirements of er s, filters or engir	nvironmental pri neering modification	otection legislation. ations to the process

: 23/02/2024 Date of previous issue

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	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	÷

Ingredient name	°C	°F	Method
iso-butanol	108	226.4	OECD 103
Solvent naphtha (petroleum), light aromatic	135 to 210	275 to 410	

Flammability Lower and upper explosion : Not available.

Explosion : Lower: 0.8% Upper: 7.6%

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Flash point

limit

: Closed cup: 25°C (77°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	
iso-butanol	415	779	
Decomposition temperature : Not ava	vilable		

Decomposition temperature	
рН	: Not available.
Viscosity	: Kinematic (40°C): >20.5 mm ² /s
Solubility(ies)	1
Not available.	

Solubility in water : Not available.

Partition coefficient: n-octanol/	1	Not applicable.
water		

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
iso-butanol	<12.00102	<1.6	DIN EN 13016-2				
Ethylbenzene	9.30076	1.2					

Relative defisity	. NOL available.
Density	: 1.6 g/cm ³
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stabilit	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	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld braze, solder, drill, grind or expose containers to heat or sources of ignition.	,
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Oral	Rat	8400 mg/kg	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route	ATE value
Dermal	7551.65 mg/kg
Inhalation (vapours)	61.99 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
eaction product: bisphenol- A-(epichlorhydrin); epoxy esin	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
Kylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
· · · ·	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
itanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
-	Skin - Mild irritant	Rabbit	-	24 hours 15	-

Label No :77669

Solvent naphtha (petroleum), light aromatic	Eyes - Mild irritant	Rabbit	-	mg 24 hours 100 uL	-
Conclusion/Summary	: Causes skin irritation.	I			
Sensitisation					
Conclusion/Summary	: May cause an allergic sk	in reaction.			
<u>Autagenicity</u>					
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.	
Carcinogenicity					
t has been observed that the eading to significant impairme				rable dust is inhale	ed in quantities
Conclusion/Summary	: Based on available data,	the classification	n criteria	are not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data.	the classification	n criteria :	are not met.	

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 3	-	Respiratory tract irritation
iso-butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	oral, inhalation	-
Ethylbenzene	Category 2	oral, inhalation	hearing organs

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness

: 23/02/2024 Date of previous issue

: 10/08/2022

SECTION 11: Toxico	lo	gical information
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	<u>:ts</u>	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	<u>ect</u>	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. 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.

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
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
iso-butanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Trizinc bis(orthophosphate)	Acute EC50 0.32 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 0.96 mg/l	Crustaceans - Ceriodaphnia dubia	48 hours
Solvent naphtha (petroleum), light aromatic	Acute EC50 3.2 mg/l	Daphnia	48 hours
Ŭ	Acute LC50 9.2 mg/l	Fish	96 hours
Conclusion/Summary	: Harmful to aquatic life with long lastin	g effects.	1
ate of issue/Date of revision	: 23/02/2024 Date of previous issue	: 10/08/2022 Version	:8 24/32

INERTA PRIMER 5 - All variants

ue : 10/08/20

SECTION 12: Ecological information

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
iso-butanol	-	74 % - Readily - 28	days	-	-
Conclusion/Summary	: This product ha	as not been tested for	biodegrad	ation.	
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
iso-butanol	-		-		Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	Low
Xylene iso-butanol Ethylbenzene Trizinc bis(orthophosphate) Solvent naphtha (petroleum), light aromatic	1 3.6 -	8.1 to 25.9 - - 60960 10 to 2500	Low Low Low High High

12.4 Mobility in soil	
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

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.
European waste catalogue (EWC)	: 080111*, 200127*
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.

: 23/02/2024 Date of previous issue

:10/08/2022

SECTION 13: Disposal considerations

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.

SECTION 14: Transport information

ADR/RID	ADN	IMDG	IATA
UN1263	UN1263	UN1263	UN1263
PAINT	PAINT	PAINT	Paint
3	3	3	3
111	111	111	111
No.	No.	No.	No.
	UN1263 PAINT 3 CONT III	UN1263 PAINT 3 3 111 UN1263 PAINT A A A A A A A A A A A A A	UN1263UN1263UN1263PAINTPAINTPAINT333IIIIIIIII

		Tunnel code (D/E)
ADN	1	<u>Viscous liquid exception</u> 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	-	Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
14.6 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.
14.7 Maritime transport in bulk according to IMO instruments	:	Not relevant/applicable due to nature of the product.

packagings up to 450 L according to 2.2.3.1.5.1.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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 on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
INERTA PRIMER 5	≥90	3

Date of issue/Date of revision INERTA PRIMER 5 - All variants : 10/08/2022

SECTION 15: Regulatory information

Labelling	1	
Other EU regulations		
Industrial emissions (integrated pollution prevention and control) - Air	-	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed
Explosive precursors	:	Not applicable.
Ozone depleting substance	es	(1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Da	anger criteria
C	ategory
P	5c

National regulations

<u>Austria</u>		
VbF class	: A II Very dangerous flammable liquid.	
Limitation of the use of organic solvents	: Permitted.	
Czech Republic		
Storage code	: 11	
<u>Denmark</u>		
Danish fire class	: II-1	
Executive Order No. 1795/2	<u>2015</u>	
		-

: 4-5

Ingredient name	Annex I Section A	Annex I Section B
titanium dioxide	Listed	-
Ethylbenzene	Listed	-

MAL-code

Protection based on MAL

: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

: 23/02/2024 Date of previous issue

SECTION 15: Regulatory information

	MAL-code: 4-5 Application: When using scraper or knife, brush, roller etc. for pre- and post- treatments in a spray booth where the operator is outside the spray zone and whe working in similar new* facilities of the combined-cabin, spray-cabin and spray-boo type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns.
	- Protective clothing must be worn.
	When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zor When using scraper or knife, brush, roller, etc. for pre- and post-treatments outsic a closed facility, spray booth or spray cabin.
	- Air-supplied half mask, protective clothing and eye protection must be worn.
	When spraying in new* booths if the operator is outside the spray zone.
	- Air-supplied half mask and eye protection must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spray- cabin and spray-booth type where the operator is working inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, there is a risk of contact with wet paint or organic solvents.
	- Air-supplied full mask and protective clothing must be worn.
	During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cab or booth.
	- Air-supplied full mask, protective clothing and hood must be worn.
	Drying: Items for drying/drying ovens that are temporarily placed on such things rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.
	Polishing: When polishing treated surfaces, a mask with dust filter must be worr When machine grinding, eye protection must be worn. Work gloves must always k worn.
	Caution The regulations contain other stipulations in addition to the above.
	*See Regulations.
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Wo
List of undesirable substances	: Not listed
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.
Finland	,
France	
Social Security Code, Articles L 461-1 to L 461-7	: Xylene RG 4bis, RG 84 iso-butanol RG 84 Ethylbenzene RG 84 Solvent naphtha (petroleum), light aromatic RG 84

INERTA PRIMER 5 - All variants

SECTION 15: Regulatory information

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category		Reference number
P5c		1.2.5.3
Hazard class for water	: 2	
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 38% TA-Luft Class I - Number 5.2.5: 3.2%	
ΑΟΧ	: The product contains organically bound halogens and	can contribute to the AOX

: The product contains organically bound halogens and can contribute to the AOX value in waste water.

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
xylene Solvent naphtha (petroleum), light	- Listed	- Listed	-	Development 2 -	-
arom. silica, crystalline (NL- carcinogen specific)	Listed	-	-	-	-
Water Discharge Polic (ABM)	environm	ent (carcinogeni	ubstances with haza city/ mutagenicity/ re econtamination effor	protoxicity/ bioacun	
<u>Norway</u>	-	. ,			
<u>Sweden</u>					
Flammable liquid clas (SRVFS 2005:10)	s : 2a				
Switzerland					
VOC content	: VOC (w/v	v): 25%			
nternational regulation	<u>15</u>				
<u>Chemical Weapon Con</u>	vention List Sche	dules I, II & III (<u>Chemicals</u>		
Not listed.					
<u>Iontreal Protocol</u> Not listed.					
tockholm Convention	on Persistent Or	<u>ganic Pollutant</u>	<u>'S</u>		
totterdam Convention	on Prior Informe	<u>d Consent (PIC</u>	1		
JNECE Aarhus Protoco Not listed.	ol on POPs and H	<u>eavy Metals</u>			

15.2 Chemical safety

: Complete.

assessment

Date of issue/Date of revision **INERTA PRIMER 5 - All variants** : 23/02/2024 Date of previous issue : 10/08/2022

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	de changed nom previously located version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Dreadure used to derive the	election eccerding to Degulation (EC) No. 1272/2009 [CLD/CHS]

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	Calculation method	
STOT SE 3, H335	Calculation method	
STOT RE 2, H373	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

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.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE T	OXICITY - Ca	ategory 4				
Aquatic Acute 1	SHORT-T	ERM (ACUTI	E) AQUATIC HAZARE) - Category 1			
Aquatic Chronic 1	LONG-TE	RM (CHRON	ÍC) AQUATIC HAZAR	D - Category 1			
Aquatic Chronic 2	LONG-TE	RM (CHRON	IC) AQUATIC HAZAR	D - Category 2			
Aquatic Chronic 3	LONG-TE	RM (CHRON	IC) AQUATIC HAZAR	D - Category 3			
Asp. Tox. 1	ASPIRAT	ION HAZARD	- Category 1				
Carc. 2	CARCINO	GENICITY -	Category 2				
Eye Dam. 1	SERIOUS	EYE DAMAG	GE/EYE IRRITATION	- Category 1			
Eye Irrit. 2	SERIOUS	SEYE DAMAG	GE/EYE IRRITATION	- Category 2			
Flam. Liq. 2	FLAMMA	BLE LIQUIDS	- Category 2				
Flam. Liq. 3		BLE LIQUIDS					
Skin Irrit. 2	SKIN CO	RROSION/IRI	RITATION - Category	2			
Skin Sens. 1	SKIN SEN	SITISATION	- Category 1				
STOT RE 2	SPECIFIC	C TARGET O	RGAN TOXICITY - RE	PEATED EXPOSUR	E - Category 2		
STOT SE 3	SPECIFIC	CTARGET O	RGAN TOXICITY - SII	NGLE EXPOSURE - (Category 3		
Date of issue/ Date of revision	:	23/02/2024					
Date of previous issue	• :	10/08/2022					
Date of issue/Date of revision	on	: 23/02/2024	Date of previous issue	: 10/08/2022	Version	:8	30/32
INERTA PRIMER 5 - All variants Label No :							,9

SECTION 16: Other information

Version

: 8

All variants

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

Date of issue/Date of revision INERTA PRIMER 5 - All variants : 23/02/2024 Date of previous issue