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

# SAFETY DATA SHEET



EPINOX 98 - All variants

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

1.1 Product identifier

**Product name** 

: EPINOX 98 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised against **Product 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

## **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

: National Poisons Information Centre: 01 809 2566 **Telephone number** 

## 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]

Fíam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373

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	: Danger
Hazard statements	<ul> <li>Im225 - Highly flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	

#### 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.

Date of issue/Date of revision	: 20/03/2023	Date of previous issue	: 26/09/2022	Version	:2	1/17
EPINOX 98 - All variants				Label No :	<b>4</b> 5219	Э

## **SECTION 2: Hazards identification**

Response	:	₱305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis[oxirane Xylene iso-butanol crystalline silica, respirable powder
Supplemental label elements	:	
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.	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

1907/2006, Annex XIIIOther hazards which do: None known.not result in classification

## **SECTION 3: Composition/information on ingredients**

3.2	Mixtures

## : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2,2'-[ (1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane	CAS: 25036-25-3	≥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	≤13	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]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
Date of issue/Date of revision	: 20/03/2023 Date	e of previous is	sue : 26/09/2022	Version : 2	2/17
EPINOX 98 - All variants				Label No :#52	19

## **SECTION 3: Composition/information on ingredients**

SECTION 3: Composition/information on ingredients					
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
crystalline silica, respirable powder	EC: 238-878-4 CAS: 14808-60-7	≤3	STOT RE 1, H372 (inhalation)	-	[1] [2]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.3	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. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	: Set 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	: Set 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	: Set 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	: Set 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.
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.
Date of issue/Date of revision	: 20/03/2023 Date of previous issue : 26/09/2022 Version : 2 3/17
EPINOX 98 - All variants	Label No :45219

## 4.2 Most important symptoms and effects, both acute and delayed

**Over-exposure signs/symptoms** 

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Koverse 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 immediate medical attention and special treatment needed

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising	n the substance or mixture	
Hazards from the substance or mixture	Highly flammable liquid and vapour. Runoff to sewer may create fire or expl hazard. In a fire or if heated, a pressure increase will occur and the contained burst, with the risk of a subsequent explosion.	
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the in there is a fire. No action shall be taken involving any personal risk or withou suitable training. Move containers from fire area if this can be done without Use water spray to keep fire-exposed containers cool.	ıt
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 press mode. Clothing for fire-fighters (including helmets, protective boots and glow conforming to European standard EN 469 will provide a basic level of protect chemical incidents.	sure ves)

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable 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. But an appropriate personal protective equipment.
	inadequate. Put on appropriate personal protective equipment.

## **SECTION 6: Accidental release measures**

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).
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.
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	: Vit 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. 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 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

S	ECTION 7: Handling and storage		
	Category	Notification and MAPP Safety report threshold	1
	P5c	5000 tonne 50000 tonne	

## 7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

c : Not available.

## **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
<b>X</b> ylene	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 <sup>3</sup> 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m <sup>3</sup> 15 minutes.
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 150 ppm 15 minutes.
	OELV-15min: 723 mg/m <sup>3</sup> 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 <sup>3</sup> 8 hours.
	OELV-15min: 75 ppm 15 minutes.
	OELV-15min: 225 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m <sup>3</sup> 15 minutes.
crystalline silica, respirable powder	NAOSH (Ireland, 5/2021). [silica, crystalline respirable dust]
	Notes: EU derived Occupational Exposure Limit Values; List
	of Carcinogenic Substances, Mixtures and Processes
	OELV-8hr: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable dust

## **Biological exposure indices**

Product/ingredient name	Exposure indices
▼ylene	<b>NAOSH (Ireland, 1/2011) [Xylene]</b> BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Ethylbenzene	<b>NAOSH (Ireland, 1/2011)</b> 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
Date of issue/Date of revision : 20/03	/2023 Date of previous issue : 26/09/2022 Version : 2 6/17
EPINOX 98 - All variants	Label No : <mark>#</mark> 5219

## **SECTION 8: Exposure controls/personal protection**

	of the determinant is in question., ethylbenzene [in endexhaled air].
	Sampling time: not critical.
	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.
Becommonded monitoring	

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

## **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Xylene	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
-		Inhalation	-	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation	Ũ	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		Inhalation	<b>J</b>	population	,
	DNEL	Long term	221 mg/m³	Workers	Local
	DITE	Inhalation	· · · · · · g/ · · ·		2000
	DNEL	Long term Oral	12.5 mg/	General	Systemic
	DIVLL	Long term oral	kg bw/day	population	Cysternie
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
	DIVLL	Inhalation	00.0 mg/m	population	Oysternic
	DNEL		125 mg/kg	General	Systemic
	DINEL	Long term Dermal	125 mg/kg		Systemic
	DNEL	Long torm Dormal	bw/day	population Workers	Svotomio
	DINEL	Long term Dermal	212 mg/kg	VVUIKEIS	Systemic
		Long town-	bw/day	14/04/04-	Curete
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	440 / 3	147	
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation		_	
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	35.7 mg/m <sup>3</sup>	General	Local
		Inhalation	_	population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
		Inhalation	-	population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
		Inhalation	Ŭ	population	
	DNEL	Long term	300 mg/m <sup>3</sup>	Workers	Local
		Inhalation	Ŭ		
	DNEL	Short term	600 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	600 mg/m³	Workers	Systemic
e of issue/Date of revision : 20/	03/2023	Date of previous issue	: 26/09/20	122	Version : 2 7/1

		Inhalation			
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	Workers	Systemic
iso-butanol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic

## **PNECs**

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
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.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	> 8 hours (breakthrough time): $4H$ / Silver Shield® gloves.
Date of issue/Date of revision	: 20/03/2023 Date of previous issue : 26/09/2022 Version : 2 8/17
EPINOX 98 - All variants	Label No :#5219

## **SECTION 8: Exposure controls/personal protection**

	Wash hands before breaks and immediately after handling the product.
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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

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

## 9.1 Information on basic physical and chemical properties

: Liquid.
: Various
: Slight
: Not available.
: Not available.
:

Ingredient name		°C	°F	Method		
jso-butanol		108	226.4	OECD 103		
n-Butyl acetate		126	258.8	OECD 103		
Flammability	: Not ava	ailable.	+	ŀ		
Lower and upper explosion imit	: <b>Z</b> ower: Upper:					
Flash point	: Closed	cup: 21°C (69.8°F	)			
Auto-ignition temperature	:					
Ingredient name		°C	°F	Method		
p≁Butyl acetate		415	779	EU A.15	-	
iso-butanol		415	779			
Decomposition temperature	: Not ava	ailable.				
эΗ	: Not app	olicable.				
/iscosity	: Kinema	atic (40°C): >20.5 n	nm²/s			
Solubility(ies)	:					
Not available.						
Solubility in water	: Not ava	ailable.				
Partition coefficient: n-octano water	I/ : Not app	blicable.				
ate of issue/Date of revision	: 20/03/2023	Date of previous is	sue : 2	6/09/2022	Version : 2	9/17
PINOX 98 - All variants					Label No :#52	219

## **SECTION 9: Physical and chemical properties**

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#### Vapour pressure

	Va	pour Press	ure at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
p-Butyl acetate	11.25	1.5	DIN EN 13016-2				
iso-butanol	<12	<1.6	DIN EN 13016-2				
Relative density	: Not	available.	+				
Density	: 1.7	g/cm³					
/apour density	: Not	available.					
Explosive properties	: Not	available.					
Dxidising properties	: Not	available.					
Particle characteristics							
Median particle size	: Not	applicable.					

## **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	: 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
<b>X</b> ylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m <sup>3</sup>	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	-

## Conclusion/Summary

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

## Acute toxicity estimates

Route	ATE value
	10740.97 mg/kg 88.08 mg/l

### Irritation/Corrosion

Date of issue/Date of revision EPINOX 98 - All variants : 26/09/2022

## **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>X</b> ylene	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	
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		DULK		mg	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Conclusion/Summary	: Causes skin irritation.				
<u>Sensitisation</u>					
Conclusion/Summary	: May cause an allergic skir	n reaction.			
<u>Mutagenicity</u>					
Conclusion/Summary	: Based on available data, t	he classification o	riteria are	e not met.	
Carcinogenicity					
Conclusion/Summary	: Based on available data, t	he classification o	riteria are	e not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, t	he classification o	riteria are	e not met.	
Teratogenicity					

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>X</b> ylene	Category 3	-	Respiratory tract irritation
n-Butyl acetate	Category 3	-	Narcotic effects
iso-butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	0,	oral, inhalation oral, inhalation inhalation	- hearing organs -

#### Aspiration hazard

Product/ingredient name	Result	
Xylene	ASPIRATION HAZARD - Category 1	
Ethylbenzene	ASPIRATION HAZARD - Category 1	

# Information on likely routes : Not available. of exposure

# Potential acute health effectsEye contact: Causes serious eye damage.Inhalation: No known significant effects or critical hazards.Skin contact: Causes skin irritation. May cause an allergic skin reaction.Ingestion: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Date of issue/Date of revision	: 20/03/2023	Date of previous issue	: 26/09/2022	Version : 2	11/17
EPINOX 98 - All variants				Label No :#521	19

## **SECTION 11: Toxicological information**

Eye contact	<ul> <li>Adverse symptoms may include the following: pain watering redness</li> </ul>
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

cts as well as chronic enects from short and long-term exposure
: Not available.
: Not available.
: Not available.
: Not available.

d immediate offects as well as chronic offects from short and long form exposure

Potential chronic health effects

Not available.

Dolayod an

<b>Conclusion/Summary</b>	: Not available.
General	<ul> <li>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.</li> </ul>
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

- Artemia salina hales promelas - Artemia salina - Artemia salina
- Artemia salina 48 hour
aphnia magna - 48 hour
hynchus mykiss 96 hour 4 days
r

12.2 Persistence and degradability

: 20/03/2023 Date of previous issue

## **SECTION 12: Ecological information**

Product/ingredient name	Test	Result	Dose	Inoculum
<b>is</b> o-butanol	-	74 % - Readily - 28 days	-	-
Conclusion/Summary : This product has not been tested for biodegradation.				
Product/ingredient name	Aquatic half	f-life Photo	lysis	Biodegradability
iso-butanol	-	-		Readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	8.1 to 25.9	low
n-Butyl acetate	2.3	-	low
iso-butanol	1	-	low
Ethylbenzene	3.6	-	low

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 method	s	
Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	1	The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	1	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.
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.

	ADR/RID	ADN	IMDG	ATA
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	111	111	111	III
14.5 Environmental hazards	No.	No.	No.	No.
Additional informat	ion			
ADR/RID	: <u>Tunnel c</u>	:ode (D/E)		
I5.1 Safety, health a EU Regulation (EC	Regulatory info	gulations/legislation s <u>CH)</u>		nce or mixture
None of the com	ponents are listed.			
	<b>ery high concern</b> ponents are listed.			
Annex XVII - Rest on the manufactu placing on the ma and use of certain dangerous substa mixtures and artic	ire, arket 1 ances,			
	ns			
Other EU regulation Industrial emission (integrated pollut prevention and contain Air	ons : Not listed	I		
Industrial emission (integrated pollut prevention and co	ons : Not listed ion ontrol) - ons : Not listed ion			

## **SECTION 15: Regulatory information**

Not listed.

#### Persistent Organic Pollutants Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### Danger criteria

Category	
P5c	

## **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
crystalline silica, respirable powder		silica, crystalline respirable dust	Carc.	-

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments are still
assessment	required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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 wDr8 = Very Persistent and Very Bioaccumulative</li> </ul>
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
<b>F</b> am. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

SECTION 16	SECTION 16: Other information			
<b>⊮</b> 225	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.			
H372	Causes damage to organs through prolonged or repeated exposure.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H412	Harmful to aquatic life with long lasting effects.			
EUH066	Repeated exposure may cause skin dryness or cracking.			
Full text of class	ifications [CLP/GHS]			
Acute Tox. 4	ACUTE TOXICITY - Category 4			
Aquatic Chronic	3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3			
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			
01:0 0 10				

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.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

SKIN SENSITISATION - Category 1B

: 20/03/2023

: 26/09/2022

: 2

Skin Sens. 1B

STOT RE 1

STOT RE 2

STOT SE 3

revision

Version

Date of issue/ Date of

Date of previous issue

Notice to reader

Date of issue/Date of revision EPINOX 98 - All variants : 20/03/2023 Date of previous issue

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Version : 2 17/17 Label No : 45219