

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

Α

1.1 Product identifier	
Product name	: Hardtop XP Alu Comp
Product code	: 17520
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

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

Use in coatings - Industrial use Use in coatings - Professional use

### 1.3 Details of the supplier of the safety data sheet

Jotun Boya Sanayi ve Ticaret A.Ş. Balabandere Caddesi, Hilpark Suites Sitesi No: 10, İstinye 34460 Sarıyer, İstanbul

Tel. +90 212 279 7878 SDSJotun@jotun.com

Başvurulacak Kişi: Deren Ercan deren.metiner@jotun.com Original preparation date : 19.07.2023

## 1.4 Emergency telephone number

### **National Poison Information Center**

+90 224 442 82 93 Uludağ Üniversitesi Zehir Danışma Merkezi (www.uludag.edu.tr/uludag/zehir.html) a. ACİL DURUM TELEFONU: Zehirlenme durumlarında gerektiğinde ulusal zehir merkezinin (UZEM) 114 nolu telefonunu arayınız. b. ACİL İLK YARDIM MERKEZİ:112 c. İTFAİYE:110

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to regulation SEA: RG.-10/12/2020-31330

Flam. Liq. 3, H226 Skin Sens. 1, H317

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

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

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## SECTION 2: Hazards identification

Signal word       : Warning.         Hazard statements       : H226 - Flammable liquid and vapour.         Hazard statements       : H226 - Flammable liquid and vapour.         Hazard statements       : H226 - Flammable liquid and vapour.         General       : Not applicable.         Precautionary statements       : P280 - Wear protective gloves.         P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         P273 - Avoid release to the environment.         P261 - Avoid breathing vapour.         P322 + P364 - Take off contaminated clothing and wash it before reuse.         P332 + P313 - If skin itritation or rash occurs: Get medical advice or attention.         Storage       : Not applicable.         Disposal       : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.         Hazardous ingredients       : butyl methacrylate         decamedicic acid. 1.10-bis(1.2.2.6.6-pentamethyl-4-piperidinyl) ester, mixt. with 1-methyl 10-(1.2.2.6.6-pentamethyl-4-piperidinyl) decanedioate         2-hydroxyethyl methacrylate       : butyl methacrylate         decamedicic acid. 1.10-bis(1.2.2.6.6-pentamethyl-4-piperidinyl) decanedioate         2-hydroxyethyl methacrylate       : Not applicable.         elements       : Not applicable.         Annex 17 - Restrictions on	Hazard pictograms		
Hazard statements       : H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H312 - Harmful to aquatic life with long lasting effects.         Precautionary statements       General       : Not applicable.         General       : Not applicable.       Prevention       : P280 - Wear protective gloves. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.         Response       : P362 + P364 - Take off contaminated clothing and wash it before reuse. P303 + P333 - If skin irritation or rash occurs: Get medical advice or attention.         Storage       : Not applicable.         Disposal       : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.         Hazardous ingredients       : butyl methacrylate decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate 2-hydroxyethyl methacrylate         Supplemental label elements       : Not applicable.         Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted with child-resistant rastel warning of danger       : Not applicable.         2.3 Other hazards       : This mixture does not contain any substances that are assessed to be a PBT	······		
H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.         Precautionary statements         General       : Not applicable. Prevention         Prevention       : P280 - Wear protective gloves. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breatting vapour.         Response       : P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IP ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.         Storage       : Not applicable.         Disposal       : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.         Hazardous ingredients       : butyl methacrylate decanedioic acid, 1, 10-bis(1, 22, 6, 6-pentamethyl-4-piperidinyl) ester, mixt, with 1-methyl 10-(1, 22, 6, 6-pentamethyl-4-piperidinyl) ester, mixt, with 1-methyl 10-(1, 22, 6, 6-pentamethyl-4-piperidinyl) ester, mixt, with 1-methyl 10-(1, 22, 6, 6-pentamethyl-4-piperidinyl) ester, mixt, with 1-methyl 10-(1, 22, 6, 6-pentamethyl-4-piperidinyl) decanedioate 2-hydroxyethyl methacrylate         Supplemental label elements       : Not applicable.         Annex 17 - Restrictions on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements Containers to be fitted with child-resistant fastenings       : Not applicable.         Za Other hazards       : Not applicable	Signal word	: Warning.	
General       : Not applicable.         Prevention       : P280 - Wear protective gloves. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.         Response       : P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.         Storage       : Not applicable.         Disposal       : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.         Hazardous ingredients       : butyl methacrylate decanedicic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester, mixt. with 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) decanedicate 2-hydroxyethyl methacrylate         Supplemental label elements       : Not applicable.         Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         Product meets the criteria for PBT or vPvB       : This mixture does not contain any substances that are assessed to be a PBT or a vPvE.         Other hazards       : None known.	Hazard statements	H317 - May cause an allergic skin reaction.	
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		: None known.	

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

3.2 Mixtures

: Mixture

#### Hardtop XP Alu Comp A **SECTION 3: Composition/information on ingredients Product/ingredient name Identifiers** SEA: RG.-10/12/2020-31330 % Type EC: 204-658-1 ≥10 - ≤17 Flam, Lig. 3, H226 p-butvl acetate [1] [2] CAS: 123-86-4 STOT SE 3. H336 EC: 215-535-7 Flam. Lig. 3, H226 <10 [1] [2] xylene Acute Tox. 4, H312 CAS: 1330-20-7 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eve Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Flam. Liq. 2, H225 ethylbenzene EC: 202-849-4 ≤3 [1] [2] Acute Tox. 4, H332 CAS: 100-41-4 STOT RE 2, H373 (hearing organs) Index: 601-023-00-4 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Solvent naphtha (petroleum), EC: 265-199-0 ≤2.7 Flam. Liq. 3, H226 [1] CAS: 64742-95-6 STOT SE 3, H335 light arom. STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 hydrocarbons, C10-C13, n-EC: 918-481-9 ≤3 Asp. Tox. 1, H304 [1] alkanes, isoalkanes, cyclics, CAS: 64742-48-9 < 2% aromatics Neodecanoic acid, zinc salt, CAS: 84418-68-8 Aquatic Acute 1, H400 (M=1) <1 [1] Aquatic Chronic 2, H411 basic butyl methacrylate Flam. Liq. 3, H226 EC: 202-615-1 ≤0.3 [1] Skin Irrit. 2, H315 CAS: 97-88-1 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 decanedioic acid, 1,10-bis CAS: ≤0.3 Skin Sens. 1A, H317 [1] (1,2,2,6,6-pentamethyl-1065336-91-5 Repr. 2, H361f 4-piperidinyl) ester, mixt. Aquatic Acute 1, H400 (M=1) with 1-methyl 10-Aquatic Chronic 1, H410 (M=1) (1,2,2,6,6-pentamethyl-4-piperidinyl) decanedioate 2-hydroxyethyl methacrylate EC: 212-782-2 ≤0.3 Skin Irrit. 2, H315 [1] CAS: 868-77-9 Eye Irrit. 2, H319 Skin Sens. 1, H317 CAS: 34140-91-5 Skin Irrit. 2, H315 Oleic acid, compound ≤0.1 [1] Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10)

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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Date of revision

Aquatic Chronic 2, H411

statements declared above.

See Section 16 for the full text of the H

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

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

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

## 4.1 Description of first aid measures

Eye contact	eyelids. Cl	y flush eyes with plenty of water, occasionally lifting the upper and lower neck for and remove any contact lenses. Continue to rinse for at least 10 Get medical attention if irritation occurs.
Inhalation	If not breat artificial res person pro adverse he position an	ctim to fresh air and keep at rest in a position comfortable for breathing. hing, if breathing is irregular or if respiratory arrest occurs, provide spiration or oxygen by trained personnel. It may be dangerous to the viding aid to give mouth-to-mouth resuscitation. Get medical attention if alth effects persist or are severe. If unconscious, place in recovery d get medical attention immediately. Maintain an open airway. Loosen og such as a collar, tie, belt or waistband.
Skin contact	Wash cont gloves. Co event of ar	plenty of soap and water. Remove contaminated clothing and shoes. aminated clothing thoroughly with water before removing it, or wear intinue to rinse for at least 10 minutes. Get medical attention. In the y complaints or symptoms, avoid further exposure. Wash clothing before an shoes thoroughly before reuse.
Ingestion	swallowed drink. Stop induce von the head s attention if mouth to a medical att	nouth with water. Remove dentures if any. If material has been and the exposed person is conscious, give small quantities of water to o if the exposed person feels sick as vomiting may be dangerous. Do not niting unless directed to do so by medical personnel. If vomiting occurs, hould be kept low so that vomit does not enter the lungs. Get medical adverse health effects persist or are severe. Never give anything by n unconscious person. If unconscious, place in recovery position and get ention immediately. Maintain an open airway. Loosen tight clothing such tie, belt or waistband.
Protection of first-aiders	may be dar	hall be taken involving any personal risk or without suitable training. It ngerous to the person providing aid to give mouth-to-mouth resuscitation. aminated clothing thoroughly with water before removing it, or wear

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

## Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imr	nediate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large

- **Notes to physician** : I reat symptomatically. Contact poison traquantities have been ingested or inhaled.
- 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 from the substance or mixture

5.2 Special hazarus ansing ir	011	
Hazards from the substance or mixture	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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 thermal decomposition 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 incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

6.1 Personal precautions, pro	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
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

**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.

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

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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **SECTION 7: Handling and storage**

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

### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

See Technical Data Sheet / packaging for further information.

Regulation on the prevention of major industrial accidents and reduction of their effects - Reporting thresholds

### Danger criteria

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

## 7.3 Specific end use(s)

: Not available.

Recommendations:Industrial sector specific:solutions:

: Not available.

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

## 8.1 Control parameters

## **Occupational exposure limits**

Product/ingredient name	Exposure limit values		
P-butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m <sup>3</sup> 15 minutes. TWA: 241 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.		
xylene	<b>TR ISGGM OEL (Turkey, 12/2013). [Xylene (pure and mixed isomers)] Absorbed through skin.</b> TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 442 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.		
ethylbenzene	<b>TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin.</b> TWA: 442 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes.		

### **Biological exposure indices**

No exposure indices known.

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
-butyl acetate	DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Local
	DNEL	Long term Inhalation	480 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	859.7 mg/ m³	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	859.7 mg/ m³	General population [Consumers]	Local
	DNEL	Long term Inhalation	102.34 mg/ m <sup>3</sup>		Systemic
	DNEL	Long term Inhalation	102.34 mg/ m³		Local
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic

#### Conforms to regulation No. 30105, Turkey KKDIK, Annex 2 Hardtop XP Alu Comp A **SECTION 8: Exposure controls/personal protection** DNEL Long term Dermal 3.4 mg/kg General Systemic bw/day population Short term Dermal DNEL 6 mg/kg General Systemic bw/day population DNEL 7 mg/kg Long term Dermal Workers Systemic bw/day DNEL Short term Dermal 11 mg/kg Workers Systemic bw/day 12 mg/m<sup>3</sup> DNEL Long term General Systemic Inhalation population DNEL Long term 35.7 mg/m<sup>3</sup> General Local Inhalation population DNEL Long term 48 mg/m<sup>3</sup> Workers Systemic Inhalation DNEL Short term 300 mg/m<sup>3</sup> General Local Inhalation population DNEL Short term 300 mg/m<sup>3</sup> General Systemic population Inhalation Workers DNEL 300 mg/m<sup>3</sup> Long term Local Inhalation 600 mg/m<sup>3</sup> DNEL Short term Workers Local Inhalation DNEL Short term 600 mg/m<sup>3</sup> Workers Systemic Inhalation xylene DNEL Long term Oral 12.5 mg/ General Systemic kg bw/day population DNEL Long term 65.3 mg/m<sup>3</sup> General Local Inhalation population Long term General

DNEL

DNEL

.....

Inhalation

Long term Dermal

	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General	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
Solvent naphtha (petroleum), light arom.	DNEL	Long term Dermal	12.5 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	151 mg/m <sup>3</sup>	Workers	Systemic

65.3 mg/m<sup>3</sup>

125 mg/kg

bw/day

population

population

General

Systemic

Systemic

# SECTION 8: Exposure controls/nersonal protection

	DNEL	Long term Dermal	7.5 mg/kg	General	Systemic
			bw/day	population	- ,
				[Consumers]	
	DNEL	Long term	32 mg/m <sup>3</sup>	General	Systemic
		Inhalation	- J.	population	,
				[Consumers]	
	DNEL	Long term Oral	7.5 mg/kg	General	Systemic
		Ŭ	bw/day	population	,
			,	[Consumers]	
butyl methacrylate	DNEL	Long term Dermal	3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	5 mg/kg	Workers	Systemic
		_	bw/day		
	DNEL	Long term	66.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation	Ŭ	population	
	DNEL	Long term	366.4 mg/	General	Local
		Inhalation	m³ Č	population	
	DNEL	Long term	409 mg/m <sup>3</sup>	Workers	Local
		Inhalation	_		
	DNEL	Long term	415.9 mg/	Workers	Systemic
		Inhalation	m³		
decanedioic acid, 1,10-bis	DNEL	Long term Oral	0.18 mg/	General	Systemic
(1,2,2,6,6-pentamethyl-4-piperidinyl)			kg bw/day	population	
ester, mixt. with 1-methyl 10-					
(1,2,2,6,6-pentamethyl-4-piperidinyl)					
decanedioate					
	DNEL	Long term	0.31 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.9 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	1.27 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	1.8 mg/kg	Workers	Systemic
			bw/day		
2-hydroxyethyl methacrylate	DNEL	Long term Oral	0.83 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.83 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	1.3 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	2.9 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	4.9 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation		- ·	
Oleic acid, compound	DNEL	Long term Oral	5 µg/kg bw/		Systemic
			day	population	
	DNEL	Long term Dermal	5 µg/kg bw/	General	Systemic
			day	population	
	DNEL	Long term Dermal	14 µg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	17.4 µg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	98.4 µg/m³	Workers	Systemic
	1	Inhalation			1

<u>PNECs</u>

Product/ingred	lient name	<b>Compartment Detail</b>	Value	Method Detail				
n-butyl acetate		Fresh water	0.18 mg/l	-				
-		Marine	0.018 mg/l	-				
		Sewage Treatment	35.6 mg/l	-				
		Plant	-					
		Fresh water sediment	0.981 mg/kg dwt	-				
		Marine water sediment	0.0981 mg/kg dwt	-				
		Soil	0.0903 mg/kg dwt	-				
xylene		Fresh water	0.327 mg/l	-				
		Marine	0.327 mg/l	-				
		Sewage Treatment Plant	6.58 mg/l	-				
		Fresh water sediment	12.46 mg/kg dut					
		Marine water sediment	12.46 mg/kg dwt	-				
		Soil	12.46 mg/kg dwt	-				
ethylhenzene		Fresh water	2.31 mg/kg dwt 0.1 mg/l					
ethylbenzene		Marine	0.01 mg/l					
		Sewage Treatment	9.6 mg/l	-				
		Plant	9.0 mg/i	-				
		Fresh water sediment	13.7 mg/kg dwt	-				
		Soil	2.68 mg/kg dwt	-				
		Secondary Poisoning	20 mg/kg	-				
	•	limits. Use explosion-proof	ventilation equipmen	t.				
<u>idividual protection mea</u> Hygiene measures		ids, forearms and face thoro	ughly after handling	chemical products				
, g								
		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						
	Contamin	Contaminated work clothing should not be allowed out of the workplace. Wash						
		contaminated clothing before reusing. Ensure that eyewash stations and safety						
		re close to the workstation lo						
Eye/face protection		ewear complying to ISO 1632						
		nt indicates this is necessary						
		gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with						
	side-shield		nel degree of protec	alon. Salety glasses w				
Skin protection								
Hand protection	. There is a	o ono alovo motorial or com	hination of materials	that will give uplimited				
Hand protection		o one glove material or com		that will give unlimited				
		resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product.						
		ctions and information provid						
		naintenance and replacement						
		ould be replaced regularly ar		n of damage to the alo				
	material.			J J.J				
		sure that gloves are free from	m defects and that th	ney are stored and use				
	correctly.							
		rmance or effectiveness of th	ne glove may be red	uced by physical/				
		damage and poor maintenan						

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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

	Wear suitable gloves tested to ISO 374-1:2016. Recommended, gloves(breakthrough time) > 8 hours: polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.75 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm) May be used, gloves(breakthrough time) 4 - 8 hours: Viton® (> 0.7 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm) Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)
	For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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

## 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Colour	Aluminium
Odour	Characteristic.
Odour threshold	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	✓owest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average: 137.42°C (279.4°F)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	<b>9</b> .8 - 9.8%
Flash point	Closed cup: 30°C (86°F)
Auto-ignition temperature	✓ west known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, aromatics).
Decomposition temperature	Not available.
pH	Not applicable.
Viscosity	Kinematic (40°C): >20.5 mm²/s
Solubility(ies)	

Media		Result			
		Not soluble Not soluble			
Partition coefficient: n-octanol/ water	: No	t available.			
Vapour pressure		ghest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). eighted average: 1.11 kPa (8.33 mm Hg) (at 20°C)			
	-	ghest known value: 1 (n-butyl acetate) Weighted average: 0.88compared with tyl acetate			
Density	: 1.1	156 to 1.398 g/cm <sup>3</sup>			
Vapour density		ghest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.87 r = 1)			
Explosive properties	: No	t available.			
Oxidising properties	: No	t available.			
Particle characteristics					
Median particle size	: No	t applicable.			

## 9.2 Other information

No additional information.

## **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	1	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.
Shelf life at 23 °C	:	24 month(s)

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>p</b> -butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
-	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	13100 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
butyl methacrylate	LD50 Oral	Rat	16 g/kg	-
2-hydroxyethyl methacrylate	LD50 Oral	Rat	5050 mg/kg	-

**Conclusion/Summary** : Not available.

Acute toxicity estimates

## **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
📕 ardtop XP Alu Comp A	N/A	13130.7	N/A	181.3	N/A
n-butyl acetate	13100	N/A	N/A	N/A	N/A
xylene	4300	1100	N/A	20	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A
n-butyl methacrylate	16000	N/A	N/A	N/A	N/A
2-Hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
butyl methacrylate	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Rabbit	-	500 microliters	-
2-hydroxyethyl methacrylate	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

## **Conclusion/Summary** : Not available.

### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
butyl methacrylate	skin	Mammal - species unspecified	Sensitising
2-hydroxyethyl methacrylate	skin	Mammal - species unspecified	Sensitising
Conclusion/Summary	: Not available.		
<u>Mutagenicity</u>			
<b>Conclusion/Summary</b>	: Not available.		
<u>Carcinogenicity</u>			
<b>Conclusion/Summary</b>	: Not available.		
Reproductive toxicity			
Conclusion/Summary	: Not available.		

**Teratogenicity** 

**Conclusion/Summary** : Not available.

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
p-butyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
butyl methacrylate	Category 3	-	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Date of revision

## **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene Oleic acid, compound	Category 2 Category 2	-	hearing organs -

## Aspiration hazard

Result
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

# Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: 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	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

: Not available.

: Not available.

Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	

effects	
Potential delayed effects	: Not available.

i otontio	ii uciuyc	u chicolo	. Notava
<b>Potential</b>	chronic	health ef	<u>fects</u>

Not available.

Potential immediate

Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Other information

Date of revision

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
2	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light arom.	•	Daphnia	48 hours
•	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
butyl methacrylate	Chronic NOEC 2.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
decanedioic acid, 1,10-bis (1,2,2,6,6-pentamethyl- 4-piperidinyl) ester, mixt. with 1-methyl 10- (1,2,2,6,6-pentamethyl- 4-piperidinyl) decanedioate	Acute EC50 1.68 mg/l	Algae	96 hours
	Acute LC50 0.9 mg/l	Fish	96 hours
	Chronic NOEC 1 mg/l	Daphnia	21 days

Conclusion/Summary

: This material is harmful to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
ethylbenzene	-	-	Readily
Solvent naphtha (petroleum), light arom.	-	-	Not readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>p</b> -butyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
ethylbenzene	3.6	-	low
Solvent naphtha (petroleum) light arom.	, -	10 to 2500	high
hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatics	-	10 to 2500	high
butyl methacrylate 2-hydroxyethyl methacrylate	2.99 0.42	-	low low

## **12.4 Mobility in soil**

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

### 12.5 Results of PBT and vPvB assessment

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

**12.6 Other adverse effects** : No known significant effects or critical hazards.

	Date of revision	: 29.11.2023	Original preparation date	: 19.07.2023	Version
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## **SECTION 13: Disposal considerations**

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

### 13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

### Waste list

Waste code	Waste code definition	
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances	
Packaging		
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
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
14.1 UN 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
14.5 Environmental hazards	No.	Yes.	No.	No.

#### **Additional information** ADR/RID : Hazard identification number 30 Tunnel code (D/E) CR/RID: Viscous substance. Not goods of class 3, ref. 2.2.3.1.5 (only applicable to receptacles < 450 litre capacity). **ADN** The product is only regulated as an environmentally hazardous substance when 2 transported in tank vessels. IMDG : Emergency schedules F-E, S-E MDG: Viscous substance. Transport in accordance with 2.3.2.5 of the IMDG Code (only applicable to receptacles < 450 litre capacity). Date of revision : 29.11.2023 : 19.07.2023 Version : 1.01 Original preparation date 16/19

## SECTION 14: Transport information

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

14.7 Transport in bulk according to IMO instruments

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

## Turkey Regulation No. 30105, KKDIK

Annex 14 - List of substances subject to authorization

: Not available.

### Annex 14

None of the components are listed.

## Substances of very high concern

None of the components are listed.

**Annex 17 - Restrictions** : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

### **Ozone depleting substances**

Not listed.

## Regulation on the prevention of major industrial accidents and reduction of their effects

This product is controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

### **Danger criteria**

Category

P5c

## **EU regulations**

### EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation **Annex XIV** None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances. mixtures and articles **Industrial emissions** : Listed (integrated pollution prevention and control) -Air **Industrial emissions** : Listed (integrated pollution prevention and control) -Water Date of revision : 29.11.2023 Original preparation date

## **SECTION 15: Regulatory information**

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

Not listed.

### Persistent Organic Pollutants Not listed.

## **International regulations**

## Chemical Weapon Convention List Schedules I, II & III Chemicals

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 assessment

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

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and<br/>acronyms: ATE = Acute Toxicity Estimate<br/>EUH statement = SEA-specific Hazard statement<br/>N/A = Not available<br/>PBT = Persistent, Bioaccumulative and Toxic<br/>PNEC = Predicted No Effect Concentration<br/>SGG = Segregation Group<br/>vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to regulation SEA: RG.-10/12/2020-31330

Classification	Justification	
Skin Sens. 1, H317	On basis of test data Calculation method Calculation method	

## Full text of abbreviated H statements

<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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
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.

### Full text of classifications [SEA/GHS]

## **SECTION 16: Other information**

Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1A	SKIN SENSITISATION - Category 1A	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
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