

KRONOX 610 Version 1.0 MSDS Number: H54651 Revision Date: 22.05.2015 SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1 Product identifier** Trade name : KRONOX 610 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Sub-: Clear coating stance/Mixture Recommended restrictions : For use in industrial installations or professional treatment on use only. 1.3 Details of the supplier of the safety data sheet Company : Roberlo s.a. Ctra. Nacional II. Km. 706.5 17457 Riudellots de la Selva Spain Telephone : +34972478060 Telefax : +34972477394 E-mail address of person : msds@roberlo.com responsible for the SDS

1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) Flammable liquids, Category 3 H226: Flammable liquid and vapour.				
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.			
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.			
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.			

Classification (67/548/EEC, 1999/45/EC)



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Flammable	R10: Flammable.	
Sensitising	R43: May cause s	ensitisation by skin contact.
	R66: Repeated ex or cracking.	posure may cause skin dryness
	R67: Vapours may ness.	y cause drowsiness and dizzi-
Dangerous for the enviror		o aquatic organisms, may cause effects in the aquatic environ-

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)					
Hazard pictograms					
Signal word	: Warning				
Hazard statements	: H226 H317 H336 H412	Flammable liquid and vapour. May cause an allergic skin reaction. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting ef- fects.			
Supplemental Hazard Statements	: EUH066	Repeated exposure may cause skin dry- ness or cracking.			
Precautionary statements	 Prevention: P210 P260 P260 Response: P303 + P361 P370 + P378 	 Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not breathe vapours. Do not breathe spray. + P353 IF ON SKIN (or hair): Take off immedi- ately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. 			
	Storage: P403 Disposal: P501	Store in a well-ventilated place. Dispose of contents/ container to an ap- proved waste disposal plant.			



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 Hazardous components which must be listed on the label:
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n-butyl acetate

pentaerythritol tetrakis(3-mercaptopropionate)

Bis(hydroxiphenylbenzotriazole) derivative

Hydroxiphenylbenzotriazole derivative

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

triisotridecyl phosphite

dibutyltin dilaurate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Paint

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
n-butyl acetate	123-86-4 204-658-1 01- 2119485493-29	R10 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H336	>= 20 - < 30
isobutyl methyl ketone	108-10-1 203-550-1 01- 2119473980-30	F; R11 Xn; R20 Xi; R36/37 R66	Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335	>= 3 - < 10
heptan-2-one	110-43-0 203-767-1	R10 Xn; R20/22	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332	>= 1 - < 10
butylglycol acetate	112-07-2 203-933-3 01- 2119475112-47	Xn; R20/21	Acute Tox. 4; H332 Acute Tox. 4; H312	>= 1 - < 10
pentaerythritol tetrakis(3-	7575-23-7 231-472-8	Xn; R22 N; R50/53	Acute Tox. 4; H302 Skin Sens. 1; H317	>= 1 - < 2.5



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mercaptopropionate)	01- 2119486981-23	R43	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
Bis(hydroxiphenylbenzo triazole) derivative	104810-48-2 400-830-7	Xi; R43 N; R51/53	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.25 - <
Hydroxiphenylbenzotria zole derivative	104810-47-1	Xi; R43 N; R51/53	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.25 - <
monoalkyl or monoaryl or monalkylaryl esters of methacrylic acid	7534-94-3 231-403-1	Xi; R36/37/38 N; R51/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 2; H411	>= 0.25 - <
Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate	41556-26-7 255-437-1 01- 2119491304-40	Xi; R43 N; R50/53	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.2
triisotridecyl phosphite	77745-66-5 278-758-9 01- 2119487302-40	R43 R53	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 0.1 - < 0.2
Solvent naphtha (petro- leum), light arom.	64742-95-6 265-199-0 01- 2119455851-35	Xn; R65 Xi; R37 N; R51/53 R10 R66 R67	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411	>= 0.1 - < 0.2
dibutyltin dilaurate	77-58-7 201-039-8 01- 2119496068-27	Mut.Cat.3; R68 Repr.Cat.2; R60 Repr.Cat.2; R61 T; R48/25 C; R34 R43 N; R50/53	Muta. 2; H341 Repr. 1B; H360FD STOT SE 1; H370 STOT RE 1; H372 Skin Corr. 1C; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317	>= 0.1 - < 0.2
Substances with a workp 2-methoxy-1-	blace exposure lim	it : R10	Flam. Liq.3; H226	>= 1 - < 10
methylethyl acetate	203-603-9		п ант. LI4.3, ПZ20	~_ 1 - < 10



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	01- 2119475791-29	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures General advice : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled : Move to fresh air. Consult a physician after significant exposure. In case of skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician. In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If swallowed : Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention. 4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Inhalation may provoke the following symptoms:
	Headache
	Vertigo
	Fatigue
	Weakness
	Skin contact may provoke the following symptoms:
	Redness
	Pain
	Ingestion may provoke the following symptoms:
	Abdominal pain
	Nausea
	Vomiting
	Diarrhoea

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: No information available.



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SECTION 5: Firefighting meas	sures				
5.1 Extinguishing media					
Suitable extinguishing media	: Alcohol-resistant foam Dry chemical				
Unsuitable extinguishing media	: High volume water jet				
5.2 Special hazards arising from	the substance or mixture				
Specific hazards during fire- fighting	: Do not use a solid water stre fire.	eam as it may scatter and spread			
Hazardous combustion prod- ucts	: No hazardous combustion p	roducts are known			
5.3 Advice for firefighters					
Special protective equipment for firefighters	: In the event of fire, wear self	-contained breathing apparatus.			
Further information	must not be discharged into Fire residues and contamina be disposed of in accordanc	ted fire extinguishing water must			

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures					
Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.				
6.2 Environmental precautions					
Environmental precautions	 Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities. 				

rately in closed containments.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel,
	acid binder, universal binder, sawdust).
	Keep in suitable, closed containers for disposal.



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6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	Person ma, alle not be e used. Smokin plication	e of rinse water in accordance with local and national
Advice on protection against fire and explosion	tion - N	ormation of aerosol. Keep away from sources of igni- o smoking. Take measures to prevent the build up of static charge.
Hygiene measures	practice	in accordance with good industrial hygiene and safety b. When using do not eat or drink. When using do not Wash hands before breaks and at the end of workday.
7.2 Conditions for safe storage, i	luding a	ny incompatibilities
Requirements for storage areas and containers		king. Keep container tightly closed in a dry and well- ed place.
Storage period	12 Mon	ths
Other data	No dec	omposition if stored and applied as directed.
7.3 Specific end use(s)		
Specific use(s)		use of this product do not exist particular recommen- apart from that already indicated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
n-butyl acetate	123-86-4	TWA	150 ppm	GB EH40
			724 mg/m3	
n-butyl acetate	123-86-4	STEL	200 ppm	GB EH40
,				



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			966 mg/m3	
isobutyl methyl ketone	108-10-1	TWA	20 ppm 83 mg/m3	2000/39/EC
Further information	Indicative			•
isobutyl methyl ketone	108-10-1	STEL	50 ppm 208 mg/m3	2000/39/EC
Further information	Indicative			
isobutyl methyl ketone	108-10-1	TWA	50 ppm 208 mg/m3	GB EH40
Further information			he assigned substances are bsorption will lead to system	
isobutyl methyl ketone	108-10-1	STEL	100 ppm 416 mg/m3	GB EH40
Further information			he assigned substances are bsorption will lead to system	
2-methoxy-1- methylethyl ace- tate	108-65-6	TWA	50 ppm 275 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signific	cant uptake through the skin,	Indicative
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signific	ant uptake through the skin,	Indicative
2-methoxy-1- methylethyl ace- tate	108-65-6	TWA	50 ppm 274 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 548 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
heptan-2-one	110-43-0	TWA	50 ppm 238 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signific	cant uptake through the skin,	Indicative
heptan-2-one	110-43-0	STEL	100 ppm 475 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signific	cant uptake through the skin,	Indicative
heptan-2-one	110-43-0	STEL	100 ppm 475 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
heptan-2-one	110-43-0	TWA	50 ppm 237 mg/m3	GB EH40
Further information			he assigned substances are bsorption will lead to system	
butylglycol acetate	112-07-2	TWA	20 ppm 133 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signific	cant uptake through the skin,	Indicative
butylglycol acetate	112-07-2	STEL	50 ppm	2000/39/EC



Further information Identifies the possibility of significant uptake through the skin, Indicative butylglycol acetate 112-07-2 TWA 20 ppm GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. butylglycol acetate 112-07-2 ISTEL 50 ppm GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. dibutyltin dilaurate 77-58-7 STEL 0.1 mg/m3 GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. dibutyltin dilaurate 77-58-7 STEL 0.2 mg/m3 GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. dibutyltin dilaurate 77-58-7 STEL 0.2 mg/m3 GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Derived No Effect Level (DNEL) according to Regulation (EC)		
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butylglycol acetate 112-07-2 TWA 20 ppm GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. butylglycol acetate 112-07-2 STEL 50 ppm GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. GB EH40 dibutyltin dilaurate 77-58-7 TWA 0.1 mg/m3 GB EH40 further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. dibutyltin dilaurate 77-58-7 STEL 0.2 mg/m3 GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006: n-butyl acetate End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 304.25 mg/m3 aboutyl acetate End Use: Workers Exposure routes: Inhalation Potential health e	Further information	
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there are concerns that dermal absorption will lead to systemic toxicity. butylglycol acetate 112-07-2 STEL 50 ppm GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. GB EH40 dibutyltin dilaurate 77-58-7 TWA 0.1 mg/m3 GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. dibutyltin dilaurate 77-58-7 STEL 0.2 mg/m3 GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006: n-butyl acetate Exposure routes: inhalation Potential health effects: Long-term systemic effects Value: 394.25 mg/m3 heptan-2-one End Use: Workers Exposure routes: inhalation Potential health effects: Long-term systemic effects Value: 33 mg/m3 2-butoxyethyl acetate End Use: Workers Exposure routes: inhalation Potential health effects: Long-term systemic effects Value: 133 mg/m3 Low boiling point naphtha - End Use: Workers Exposure routes:		
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Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. dibutyltin dilaurate 77-58-7 STEL 0.2 mg/m3 GB EH40 Further information Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006: n-butyl acetate : End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 480 mg/m3 heptan-2-one : End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 394.25 mg/m3 2-butoxyethyl acetate : End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 394.25 mg/m3 Low boiling point naphtha - unspecified 2-methoxy-1-methylethyl ace- Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 608 mg/m3 dibutyltin dilaurate : End Use: Workers Expos	dibutyltin dilaurate	
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	the standard EN 374 derived clean them with soap and w	d from it. Before removing gloves ater.
Skin and body protection	: impervious clothing Choose body protection acc tration of the dangerous sub	ording to the amount and concen- stance at the work place.
Respiratory protection	: In the case of vapour format proved filter.	ion use a respirator with an ap-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: characteristic
рН	: Not applicable
Melting point/range	: Not applicable
Boiling point/boiling range	: not determined
Flash point	: 25 °C Method: ISO 1523, closed cup Setaflash
Upper explosion limit	: not determined
Lower explosion limit	: not determined
Vapour pressure	: not determined
Density	: 0.987 g/cm3 (20 °C) Method: ISO 2811-1
Solubility(ies) Water solubility	: immiscible
Viscosity Viscosity, dynamic	: 70 mPa.s (20 °C) Method: ISO 2555
Viscosity, kinematic	: > 20.5 mm2/s (40 °C)



Version 1.0 MSDS Number: H54651 Revision Date: 22.05.2015 9.2 Other information No data available **SECTION 10: Stability and reactivity 10.1 Reactivity** Stable under recommended storage conditions. **10.2 Chemical stability** No decomposition if stored and applied as directed. 10.3 Possibility of hazardous reactions Hazardous reactions : No decomposition if used as directed. Vapours may form explosive mixture with air. 10.4 Conditions to avoid Conditions to avoid : Heat, flames and sparks. **10.5 Incompatible materials**

Materials to avoid : Oxidizing agents Strong acids and strong bases

10.6 Hazardous decomposition products

Hazardous decomposition : Carbon monoxide products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Product:	
Acute oral toxicity	: Acute toxicity estimate : > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	 Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 2,000 mg/kg Method: Calculation method

Components:

Acute toxicity



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	050 Oral (Rat): 10,768 mg/kg ethod: OECD Test Guideline 401	
E>	C50 (Rat): 23.4 mg/l (posure time: 4 h ethod: OECD Test Guideline 403	
	050 (Rabbit): 17,600 mg/kg ethod: OECD Test Guideline 402	
	050 Oral (Rat): 2,080 mg/kg ethod: OECD Test Guideline 401	
E>	C50 (Rat): 8.2 mg/l (posure time: 4 h ethod: OECD Test Guideline 403	
	050 (Rabbit): 20,000 mg/kg ethod: OECD Test Guideline 402	
	cute toxicity estimate : 500 mg/kg ethod: Converted acute toxicity p	
	050 (Rabbit): 12,600 mg/kg ethod: OECD Test Guideline 402	
	050 Oral (Rat): 1,880 mg/kg ethod: OECD Test Guideline 401	
E>	C50 (Rat): 20 mg/l (posure time: 4 h ethod: OECD Test Guideline 403	
	cute toxicity estimate : 1,100 mg/ł ethod: Converted acute toxicity p	
	opropionate): 050 Oral (Rat): 1,000 - 2,000 mg/ ethod: OECD Test Guideline 423	
E>	C50 (Rat): > 3.363 mg/l kposure time: 4 h ethod: OECD Test Guideline 403	
E> M xiphenylbenzotriazole) d toxicity : LE	xposure time: 4 h ethod: OECD Test Guideline 403	

Hydroxiphenylbenzotriazole derivative:



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Acute oral toxicity	: LD50 Oral (Rat): 2,000 mg/kg Method: OECD Test Guideline 40'	1
Bis(1,2,2,6,6-pentamethyl-4 Acute oral toxicity	 -piperidyl) sebacate: LD50 Oral (Rat): 2,000 mg/kg Method: OECD Test Guideline 40° 	1
Acute dermal toxicity	: LD50 (Rat): 2,000 mg/kg Method: OECD Test Guideline 402	2
Solvent naphtha (petroleum	n), light arom.:	
Acute oral toxicity	: LD50 Oral (Rat): 3,592 mg/kg Method: OECD Test Guideline 40'	1
Acute inhalation toxicity	: LC50 (Rat): > 20 mg/l Exposure time: 4 h	
Acute dermal toxicity	: LD50 (Rabbit): 3,160 mg/kg Method: OECD Test Guideline 402	2
2-methoxy-1-methylethyl ac	etate:	
	: LD50 Oral (Rat): 8,532 mg/kg Method: OECD Test Guideline 407	1
Acute inhalation toxicity	: LC50 (Rat): 35.7 mg/l Exposure time: 4 h Method: OECD Test Guideline 403	3
Acute dermal toxicity	: LD50 (Rat): 5,000 mg/kg Method: OECD Test Guideline 402	2

Skin corrosion/irritation

Product:

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

Serious eye damage/eye irritation

Product:

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

Respiratory or skin sensitisation

Product:

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- As- : Based on available data, the classification criteria are not met. sessment



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Carcinogenicity		
Product: Carcinogenicity - Assess- ment	: Based on available data, the	classification criteria are not met.
Reproductive toxicity		
Product: Reproductive toxicity - As- sessment	: Based on available data, the	classification criteria are not met.

STOT - single exposure

Product:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

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

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

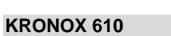
SECTION 12: Ecological information

12.1 Toxicity

<u>Components:</u> n-butyl acetate:	
Toxicity to fish	: LC50 (Fish): 18 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other	: EC50 (Daphnia (water flea)): 32 mg/l



ersion 1.0	MSDS Number: H54651	Revision Date: 22.05.2015
aquatic invertebrates	Exposure time: 48 h Method: OECD Test Guideline 202	2
Toxicity to algae	: EC50 (Algae): 675 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
isobutyl methyl ketone:		
Toxicity to fish	: LC50 (Fish): 505 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	3
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): 170 r Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity to algae	: EC50 (Algae): 400 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
butylglycol acetate:		
Toxicity to fish	: LC50 (Fish): 28 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	3
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): 37 m Exposure time: 48 h Method: OECD Test Guideline 202	-
Toxicity to algae	: EC50 (Algae): 1,570 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
pentaerythritol tetrakis(3-me	ercaptopropionate):	
Toxicity to fish	: LC50 (Fish): 0.034 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	3
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): > 0.3 Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity to algae	: EC50 (Algae): > 0.12 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
Bis(hydroxiphenylbenzotria	zole) derivative:	
Toxicity to fish	: LC50 (Fish): 2.8 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	3
Toxicity to daphnia and other	: EC50 (Daphnia (water flea)): 3.8 n	ng/l
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ersion 1.0	MSDS Number: H54651	Revision Date: 22.05.2015
aquatic invertebrates	Exposure time: 48 h Method: OECD Test Guidel	line 202
Toxicity to algae	: EC50 (Algae): 9 mg/l Exposure time: 72 h Method: OECD Test Guidel	line 201
Hydroxiphenylbenzotriazole	derivative:	
Toxicity to fish	: LC50 (Fish): 2.8 mg/l Exposure time: 96 h Method: OECD Test Guidel	line 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea) Exposure time: 48 h): 3.8 mg/l
Toxicity to algae	: EC50 (Algae): 5,540 mg/l Exposure time: 72 h Method: OECD Test Guidel	line 201
monoalkyl or monoaryl or m	onalkylaryl esters of methacr	ylic acid:
Toxicity to fish	: LC50 (Fish): 1.79 mg/l Exposure time: 96 h Method: OECD Test Guidel	line 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea) Exposure time: 48 h Method: OECD Test Guidel	· -
Toxicity to algae	: EC50 (Algae): 2.28 mg/l Exposure time: 72 h Method: OECD Test Guidel	line 201
Bis(1,2,2,6,6-pentamethyl-4-	piperidyl) sebacate:	
Toxicity to fish	: LC50 (Fish): 0.97 mg/l Exposure time: 96 h Method: OECD Test Guidel	line 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea) Exposure time: 48 h Method: OECD Test Guidel	
Solvent naphtha (petroleum)), light arom.:	
Toxicity to fish	: LC50 (Fish): 9.2 mg/l Exposure time: 96 h Method: OECD Test Guidel	line 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea) Exposure time: 48 h Method: OECD Test Guidel	· -
Toxicity to algae	: EC50 (Algae): 2.9 mg/l Exposure time: 72 h	



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	Method: OECD Test Guideli	ine 201
2-methoxy-1-methylethyl ac	etate:	
Toxicity to fish	: LC50 (Fish): 100 mg/l Exposure time: 96 h Method: OECD Test Guideli	ine 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)) Exposure time: 48 h Method: OECD Test Guideli	-
Toxicity to algae	: EC50 (Algae): 1,000 mg/l Exposure time: 72 h Method: OECD Test Guideli	ine 201
12.2 Persistence and degradabili No data available	ity	
12.3 Bioaccumulative potential No data available		
12.4 Mobility in soil No data available		
12.5 Results of PBT and vPvB as	ssessment	
<u>Product:</u> Assessment	to be either persistent, bioad	tains no components considered ccumulative and toxic (PBT), or accumulative (vPvB) at levels of
12.6 Other adverse effects		
Product: Additional ecological infor- mation	unprofessional handling or o	annot be excluded in the event of disposal., Harmful to aquatic or- erm adverse effects in the aquatic
SECTION 13: Disposal consid	lerations	
13 1 Wasto trastmant mathada		
13.1 Waste treatment methods Product	courses or the soil. Do not contaminate ponds, cal or used container.	allowed to enter drains, water waterways or ditches with chemi- clable solutions to a licensed dis-
Contaminated packaging	: Empty remaining contents.	
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Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information				
14.1 UN number				
ADR	:	UN 1263		
IMDG	:	UN 1263		
ΙΑΤΑ	:	UN 1263		
14.2 UN proper shipping name				
ADR	:	PAINT		
IMDG	:	PAINT		
ΙΑΤΑ	:	Paint		
14.3 Transport hazard class(es)				
ADR	:	3		
IMDG	:	3		
ΙΑΤΑ	:	3		
14.4 Packing group				
ADR Packing group Classification Code Hazard Identification Number Labels	:	III F1 33 3		
IMDG Packing group Labels EmS Code	:	III 3 F-E, <u>S-E</u>		
IATA Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	366 Y344 III Flammable Liquids		
14.5 Environmental hazards				
ADR Environmentally hazardous	:	no		
IMDG Marine pollutant	:	no		

SECTION 14: Transport information



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14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c	FLAMMABLE LIQUIDS	Quantity 1 5,000 t	Quantity 2 50,000 t
Volatile organic compounds	: <420 g/l		
Directive 2004/42/EC	: Topcoat (420 g/l)		
Other regulations	: The product is classified and directives or respective natio		dance with EC

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other information

Full text of R-Phrases

Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Irrit. Flam. Liq. Muta. R10 R11 R20 R20/21 R20/22 R22 R34 R36/37 R36/37/38 R37 R43 R48/25	Acute toxicity Acute aquatic toxicity Aspiration hazard Eye irritation Flammable liquids Germ cell mutagenicity Flammable. Highly flammable. Harmful by inhalation. Harmful by inhalation and in contact with skin. Harmful by inhalation and if swallowed. Harmful if swallowed. Causes burns. Irritating to eyes and respiratory system. Irritating to eyes, respiratory system and skin. Irritating to respiratory system. May cause sensitisation by skin contact. Toxic: danger of serious damage to health by prolonged exposure if
R50/53	swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in
	the aquatic environment.



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R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the	
	aquatic environment.	0
R53	May cause long-term adverse effects in the aquatic environment.	
R60	May impair fertility.	
R61	May cause harm to the unborn child.	
R65	Harmful: may cause lung damage if swallowed.	
R66	Repeated exposure may cause skin dryness or cracking.	
R67	Vapours may cause drowsiness and dizziness.	
R68	Possible risk of irreversible effects.	
Repr.	Reproductive toxicity	
Skin Corr.	Skin corrosion	
Skin Irrit.	Skin irritation	
Skin Sens.	Skin sensitisation	
STOT RE	Specific target organ toxicity - repeate	ed exposure
STOT SE	Specific target organ toxicity - single e	exposure
Full text of H-Sta	atements	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters a	airways.
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye da	mage.
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.	
H341	Suspected of causing genetic defects	
H360FD	May damage fertility. May damage the	e unborn child.
H370	Causes damage to organs.	
H372	Causes damage to organs through pr	olonged or repeated exposure.
H400	Very toxic to aquatic life.	-
H410	Very toxic to aquatic life with long last	
H411	Toxic to aquatic life with long lasting e	ffects.
H413	May cause long lasting harmful effects	s to aquatic life.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.