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

1.1 Product identifier

Trade name	:	CUROX [®] I-300
Unique Formula Identifier (UFI)	:	AF14-P3XP-E00K-1K1W

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

Use of the Sub-	:	Curing chemical
stance/Mixture		-

1.3 Details of the supplier of the safety data sheet

Company	:	United Initiators GmbH DrGustav-Adolph-Str. 3 82049 Pullach
Telephone	:	+49 / 89 / 74422 – 0
E-mail address of person responsible for the SDS	:	contact@united-in.com

1.4 Emergency telephone number

0800 000 7801 (toll-free, access from Germany only) +49 89 220 61012

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.			
Organic peroxides, Type D	H242: Heating may cause a fire.			
Acute toxicity, Category 4	H302: Harmful if swallowed.			
Acute toxicity, Category 4	H332: Harmful if inhaled.			
Skin corrosion, Sub-category 1C	H314: Causes severe skin burns and eye damage.			
Serious eye damage, Category 1	H318: Causes serious eye damage.			
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.			

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Carci	nogenicity, Category 2		H351: Suspected of causing cancer.
Aspir	ation hazard, Category	1	H304: May be fatal if swallowed and enters air- ways.
Long- egory	term (chronic) aquatic	hazard, Cat-	H411: Toxic to aquatic life with long lasting effects.
2.2 Label	elements		
	Iling (REGULATION (E	EC) No 1272/20	
Signa	l word	: Danger	
Haza	rd statements	H242 H H302 + H H304 M H314 C H317 M H351 S	lammable liquid and vapour. eating may cause a fire. 332 Harmful if swallowed or if inhaled. lay be fatal if swallowed and enters airways. auses severe skin burns and eye damage. lay cause an allergic skin reaction. uspected of causing cancer. oxic to aquatic life with long lasting effects.
Preca	autionary statements	: Preventio	on:
		flames ar P234 K P273 A P280 W	eep away from heat, hot surfaces, sparks, open d other ignition sources. No smoking. eep only in original packaging. void release to the environment. /ear protective gloves/ protective clothing/ eye protec- protection/ hearing protection.
		Respons P301 + P	
		CENTER/ P301 + P NOT indu P303 + P ately all c P304 + P air and ke POISON P305 + P with wate sent and	•

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P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.P391 Collect spillage.

Hazardous components which must be listed on the label: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2diyl dihydroperoxide and methylisobutylketon 2,2,4,6,6-pentamethylheptane (CAS-No. 13475-82-6) Isobutyl methyl ketone (CAS-No. 108-10-1) cyclohexyldimethylamine (CAS-No. 98-94-2)

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

Organic Peroxide Liquid mixture

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
Reaction mass of 4- methylpentane-2,2-diyl dihydrop- eroxide,dioxybis-4- methylpentane-2,2-diyl dihydrop- eroxide and methylisobutylketon	Registration number Not Assigned 942-932-9 01-2120103792-63- 0000	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Acute toxicity estimate	>= 45 - < 50

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2,2,4,6,6-pentamethylheptane	13475-82-6 236-757-0 01-2119490725-29	Acute oral toxicity: 1.575 mg/kg Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413 EUH066	>= 40 - < 45
IsobutyI methyl ketone	108-10-1 203-550-1 606-004-00-4 01-2119473980-30	Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H336 (Central nervous system) EUH066 Acute toxicity esti- mate Acute inhalation tox-	>= 7,5 - < 10
cyclohexyldimethylamine	98-94-2 202-715-5 01-2119533030-60	icity (vapour): 11 mg/l Flam. Liq. 3; H226 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 0,25 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	 Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.

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			espiration, mouth-to-mouth or mouth to nose. Use iments/apparatus.
Prot	ection of first-aiders		onders should pay attention to self-protection ecommended protective clothing
If inhaled		served. Call a physicia If breathed in, If not breathin Respiratory tr Call a physicia If unconscious advice.	ygen if breathing is difficult or cyanosis is ob- an immediately. move person into fresh air. g, give artificial respiration. act burning possible if aerosols are inhaled. an or poison control centre immediately. s, place in recovery position and seek medical ory tract clear.
In ca	ase of skin contact	Immediate me wounds from ty. In case of cor for at least 15 and shoes. Wash contam If on skin, rins	bersist, call a physician. edical treatment is necessary as untreated corrosion of the skin heal slowly and with difficul- ntact, immediately flush skin with plenty of water minutes while removing contaminated clothing inated clothing before re-use. se well with water. remove clothes.
In ca	ase of eye contact	sue damage a In the case of of water and s Continue rinsi Remove conta Protect unhan Keep eye wide	contact with eyes, rinse immediately with plenty seek medical advice. Ing eyes during transport to hospital. act lenses.
lf sw	allowed	Contact a pois Rinse mouth Keep respirate Do NOT induc	an immediately. son control center. thoroughly with water. ory tract clear. ce vomiting. persist, call a physician.
	important symptoms		-
Sym	ptoms	: sensitising effe	BUIS

Risks	:	Harmful if swallowed or if inhaled.
		May be fatal if swallowed and enters airways.

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May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards fighting	during fire- :	Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to tempera- tures exceeding SADT may result in a self-accelerating de- composition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.
5.3 Advice for firefig	ghters	
Special protectiv for firefighters	e equipment :	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
Specific extingui ods	shing meth- :	Do not use a solid water stream as it may scatter and spread fire.

Remove undamaged containers from fire area if it is safe to do so.

Use water spray to cool unopened containers.

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Furthe	er information	cumstances ar Use a water sp Collect contam must not be dis Fire residues a	ing measures that are appropriate to local cir- nd the surrounding environment. bray to cool fully closed containers. inated fire extinguishing water separately. This scharged into drains. and contaminated fire extinguishing water must in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Follow safe handling advice and personal protective equip- ment recommendations.
	Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas.
	Use personal protective equipment.
	Ensure adequate ventilation.
	Remove all sources of ignition.
	Evacuate personnel to safe areas.
	Never return spills in original containers for re-use.
	Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
		If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Contact with incompatible substances can cause decomposi- tion at or below SADT.
	Clear spills immediately.
	Suppress (knock down) gases/vapours/mists with a water spray jet.
	To clean the floor and all objects contaminated by this materi-
	al, use plenty of water.
	Soak up with inert absorbent material.
	Isolate waste and do not reuse.
	Non-sparking tools should be used.
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on safe handling :	 Open drum carefully as content may be under pressure. Protect from contamination. Do not swallow. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid formation of aerosol. Take precautionary measures against static discharges. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against : fire and explosion	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Keep away from combustible material. Do not spray on a naked flame or any incandescent material.
Hygiene measures :	Avoid contact with skin, eyes and clothing. Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Store in original container. Keep containers tightly closed in a	
areas and containers		cool, well-ventilated place. Store in cool place. Contamination	
		may result in dangerous pressure increases - closed contain-	
		ers may rupture. Observe label precautions. Store in accord-	
		ance with the particular national regulations. Avoid impurities	
		(e.g. rust, dust, ash), risk of decomposition. Electrical installa-	
		tions / working materials must comply with the technological	

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				•	Containers which are opened must be care- t kept upright to prevent leakage.
	Advice	on common storage	:		combustible materials. strong acids, bases, heavy metal salts and lbstances.
	Storage	e class (TRGS 510)	:	5.2	
	Recom peratur	mended storage tem- e	:	< 25 °C	
	Further age sta	information on stor- ability	:	Stable under reco	ommended storage conditions.
7.3 \$	Specifi	c end use(s)			
	Specifi	c use(s)	:	For further inform sheet.	ation, refer to the product technical data

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Isobutyl methyl	108-10-1	TWA	20 ppm	2000/39/EC		
ketone			83 mg/m3			
	Further inform	ation: Indicative				
		STEL	50 ppm	2000/39/EC		
			208 mg/m3			
	Further information: Indicative					
		AGW	20 ppm	DE TRGS		
			83 mg/m3	900		
	Peak-limit: excursion factor (category): 2;(I)					
	Further information: Skin absorption, When there is compliance with the OEL					
	and biological	tolerance values, th	ere is no risk of harming the	unborn child		

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Isobutyl methyl ketone	108-10-1	4-methylpentan-2- one: 0,7 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Reaction mass of 4-	Workers	Inhalation	Long-term systemic	2,64 mg/m3

cyclohexyldimethyla-

mine

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

Consumers

Consumers

Consumers

Workers

Workers

Workers



155,2 mg/m3

14,7 mg/m3

4,2 mg/kg

0,53 mg/m3

8,3 mg/m3

0,6 mg/m3

bw/day

Short-term exposure, Systemic effects, Local effects

Long-term systemic

effects, Local effects

Long-term systemic

Long-term systemic

Long-term systemic

effects

effects

effects

Local effects

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diyl d ide,di methy diyl d	ylpentane-2,2- ihydroperox- oxybis-4- ylpentane-2,2- ihydroperoxide nethylisobutylke-			effects	
		Workers	Inhalation	Acute systemic ef- fects	7,92 mg/m3
		Workers	Dermal	Long-term systemic effects	1,5 mg/kg bw/day
lsobu tone	tyl methyl ke-	Workers	Inhalation	Short-term exposure, Systemic effects, Local effects	208 mg/m3
		Workers	Inhalation	Long-term systemic effects, Local effects	83 mg/m3
		Workers	Skin conta	ct Long-term systemic effects	11,8 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Inhalation

Inhalation

Inhalation

Inhalation

Skin contact

Skin contact

Substance name	Environmental Compartment	Value
Reaction mass of 4-	Fresh water	0,00133 mg/l
methylpentane-2,2-diyl dihydrop-		
eroxide,dioxybis-4-		
methylpentane-2,2-diyl dihydrop-		
eroxide and methylisobutylketon		
	Marine water	0,00013 mg/l
	Fresh water sediment	0,591 mg/kg dry
		weight (d.w.)
	Marine sediment	0,0591 mg/kg dry
		weight (d.w.)
	Soil	0,118 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	1,28 mg/l
Isobutyl methyl ketone	Fresh water	0,6 mg/l
	Marine water	0,06 mg/l
	Water	1,5 mg/l
	Sewage treatment plant	27,5 mg/l

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	Fresh water sediment	8,27 mg/kg dry weight (d.w.)
	Marine sediment	0,83 mg/kg dry weight (d.w.)
	Soil	1,3 mg/kg dry weight (d.w.)
cyclohexyldimethylamine	Fresh water	0,0035 mg/l
	Marine water	0,00035 mg/l
	Intermittent use/release	0,035 mg/l
	Fresh water sediment	0,0369 mg/kg
	Marine water	0,00369 mg/kg
	Soil	0,0053 mg/kg
	Sewage treatment plant	20,6 mg/l

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Personal protective equipment

Eye/face protection	:	Ensure that eyewash stations and safety showers are close to the workstation location. Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face pro- tection if there is a splash hazard. Equipment should conform to EN 166
Hand protection Material Break through time Glove thickness Directive	::	Nitrile rubber 30 min 0,40 mm Equipment should conform to EN 374
Material Break through time Glove thickness Directive	:	butyl-rubber 120 min 0,70 mm Equipment should conform to EN 374
Remarks	:	The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protec- tive glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazard- ous substance and specific to place of work. For special ap- plications, we recommend clarifying the resistance to chemi-

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Skin	and body protection	manufactur workday. : Select appr resistance potential. Additional I task being posable su Wear as ap	aforementioned protective gloves with the glove er. Wash hands before breaks and at the end of ropriate protective clothing based on chemical data and an assessment of the local exposure body garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, dis- its) to avoid exposed skin surfaces. opropriate: rdant antistatic protective clothing.	
Res	piratory protection	: In the case of dust or aerosol formation use respirator approved filter.		
F	filter type	: ABEK-filter		
Prot	ective measures	to the cond	f protective equipment must be selected according entration and amount of the dangerous substance ific workplace.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless
Odour	: characteristic
Odour Threshold	: not determined
Melting point/range	: <-25 °C
Boiling point/boiling range	: Decomposition: Decomposes below the boiling point.
Flammability	: Not applicable

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		explosion limit / Upper bility limit	:	Upper explosion 4 %(V) (for a component	
		explosion limit / Lower bility limit	:	Lower explosion 0,5 %(V) (for a component	
	Flash p	oint	:	40 °C Method: ISO 367	9, closed cup
	Auto-igi	nition temperature	:	not determined	
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	рН		:	No data available	
	Viscosi Visc	ty cosity, dynamic	:	5 mPa.s (20 °C)	
	Visc	cosity, kinematic	:	not determined	
	Solubili Wat	ty(ies) er solubility	:	practically insolut	ble
	Solu	bility in other solvents	:	Solvent: Alcohol Description: com	pletely miscible
				Solvent: Phthalat Description: com	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	1 hPa (20 °C) (for a component	of this mixture)
	Relative	e density	:	not determined	

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	Density	/	:	0,89 g/cm3 (20 °	C)
	Relativ	e vapour density	:	not determined	
9.2	Other in	nformation			
	Explos	ives	:	Not explosive In use, may form	flammable/explosive vapour-air mixture.
	Oxidizi	ng properties	:	The substance o Organic peroxide	r mixture is not classified as oxidizing.
	Flamm	ability (liquids)	:	Flammable liquid	and vapour., Organic peroxide
	Self-igr	nition	:	The substance o	r mixture is not classified as pyrophoric.
	Self-he	ating substances	:	Not applicable	
				The substance o	r mixture is not classified as self heating.
	which i	inces and mixtures, in contact with water, ammable gases	:	The substance o contact with wate	r mixture does not emit flammable gases in er.
	Desens	sitised explosives	:	Not applicable	
	Refract	ive index	:	1,43 at 20 °C	

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions. Heating may cause a fire or explosion.

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10.2 Chemical stability

Stable under recommended storage conditions. No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.

10.5 Incompatible materials

Materials to avoid

: Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	LD50 (Rat): 1.575 mg/kg Method: OECD Test Guideline 401 Remarks: Information given is based on tests on the mixture itself.
Acute inhalation toxicity	:	LC50 (Rat): 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is moderately toxic after short term inhalation. Remarks: Information given is based on tests on the mixture itself.
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

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Remarks: No mortality observed at this dose. Information given is based on tests on the mixture itself.

Components:

Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2-diyl dihydroperoxide and methylisobutylketon:

Acute oral toxicity		LD50 (Rat): 1.575 mg/kg Method: OECD Test Guideline 401
		Acute toxicity estimate: 1.575 mg/kg Method: Calculation method
Acute inhalation toxicity	:	LC50 (Rat): 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose.
2,2,4,6,6-pentamethylheptar	ne:	
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity Remarks: Based on data from similar materials
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402
Isobutyl methyl ketone:		
Acute oral toxicity	:	LD50 (Rat): 2.080 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 11 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403
		Acute toxicity estimate: 11 mg/l Test atmosphere: vapour

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose. cyclohexyldimethylamine: Acute oral toxicity : LD50 (Rat): 272 - 289 mg/kg Assessment: The component/mixture is toxic after single in- gestion. Acute inhalation toxicity : LC50 (Rat): >1.7 - 5.8 mg/l Exposure time: 6 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is toxic after single con tact with skin. Skin corrosion/irritation Causes severe burns. : DECD Test Guideline 404 Result : Species : Rabbit Method : OECD Test Guideline 404 Result : Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: : Cocrosive after 1 to 4 hours of exposure Species : Rabbit Method : Method :	rsion	Revision Date: 04.03.2024		lumber: 0000276	Date of last issue: 08.03.2023 Date of first issue: 05.04.2016
Acute dermal toxicity E LD50 (Rat): > 2.000 mg/kg Method: DECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose. cyclohexyldimethylamine: Acute oral toxicity E LD50 (Rat): 272 - 289 mg/kg Assessment: The component/mixture is toxic after single in- gestion. Acute inhalation toxicity : LC50 (Rat): > 1,7 - 5,8 mg/l Exposure time: 6 h Test atmosphere: vapour Method: DECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: DECD Test Guideline 402 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: DECD Test Guideline 402 Assessment: The component/mixture is toxic after single con tact with skin. Skin corrosion/irritation Causes severe burns. : Product: : : Species : Rabbit Method Method : OECD Test Guideline 404 Result Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: : Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species :					
Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose. cyclohexyldimethylamine: Acute oral toxicity : LD50 (Rat): 272 - 289 mg/kg Acute inhalation toxicity : LD50 (Rat): > 1,7 - 5,8 mg/l Exposure time: 6 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is toxic after single contact with skin. Skin corrosion/irritation Causes severe burns. Product: Species Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylipentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 Result : Corrosive after 1 to 4 hours of exposure Species : Rabbit Method : OECD Test Guideline 404			Me	ethod: Calcu	lation method
Acute oral toxicity : LD50 (Rat): 272 - 289 mg/kg Assessment: The component/mixture is toxic after single ingestion. Acute inhalation toxicity : LC50 (Rat): > 1,7 - 5,8 mg/l Exposure time: 6 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is toxic after single contact with skin. Skin corrosion/irritation Causes severe burns. Product: Species : Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Zepci	Acute	e dermal toxicity	Me As to	ethod: OECI sessment: kicity	D Test Guideline 402 The substance or mixture has no acute dermal
Acute oral toxicity : LD50 (Rat): 272 - 289 mg/kg Assessment: The component/mixture is toxic after single ingestion. Acute inhalation toxicity : LC50 (Rat): > 1,7 - 5,8 mg/l Exposure time: 6 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is toxic after single contact with skin. Skin corrosion/irritation Causes severe burns. Product: Species : Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Zepci	cyclo	hexyldimethylamine	:		
Exposure time: 6 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation. Acute dermal toxicity : LD50 (Rat): 380 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is toxic after single contact with skin. Skin corrosion/irritation Causes severe burns. Product: Species : Rebit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2	Acute	e oral toxicity	As	sessment:	
Method: OECD Test Guideline 402 Assessment: The component/mixture is toxic after single contact with skin. Skin corrosion/irritation Causes severe burns. Product: Species : Rabbit Method : OECD Test Guideline 404 Result : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane: :	Acute	e inhalation toxicity	Ex Te Me As	posure time st atmosphe ethod: OECI sessment:	e: 6 h ere: vapour D Test Guideline 403
Causes severe burns. Product: Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure	Acute	e dermal toxicity	Me As	ethod: OECI sessment:	D Test Guideline 402
Product: Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane: :	Skin	corrosion/irritation			
Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane: : Corrosive after 1 to 4 hours of exposure	Cause	es severe burns.			
Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: : Extremely corrosive and destructive to tissue. Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane:	Prod	uct:			
Result : Corrosive after 1 to 4 hours of exposure Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components: . Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2-diyl dihydroperoxide and methylisobutylketon: Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane:					
Remarks : Information given is based on tests on the mixture itself. Remarks : Extremely corrosive and destructive to tissue. Components:					
Remarks : Extremely corrosive and destructive to tissue. Components: Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,diyl dihydroperoxide and methylisobutylketon: Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane:					•
Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species : Result : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure	Rema	arks	: Ex	tremely cori	rosive and destructive to tissue.
Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2 diyl dihydroperoxide and methylisobutylketon: Species : Result : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure	Com	ponents:			
Species : Rabbit Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane:	Reac	tion mass of 4-meth	•		
Method : OECD Test Guideline 404 Result : Corrosive after 1 to 4 hours of exposure 2,2,4,6,6-pentamethylheptane:	-	• •	•	-	
2,2,4,6,6-pentamethylheptane:					uideline 404
	Resu	lt	: Co	orrosive afte	r 1 to 4 hours of exposure
Result : Repeated exposure may cause skin dryness or cracking.	2,2,4,	6,6-pentamethylhep	ane:		
	Resu	lt	: Re	peated exp	osure may cause skin dryness or cracking.

Isobutyl methyl ketone:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





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Specie	es	: Rabbit	
•	sure time	: 72 h	
Metho		: OECD Test G	
Result	t	: No skin irritati	on
Result	t	: Repeated exp	osure may cause skin dryness or cracking.
cyclo	hexyldimethylamine	e:	
Result	t	: Causes burns	
Serio	us eye damage/eye	irritation	
Cause	es serious eye damag	je.	
Produ		5	
Specie Metho		: Rabbit : OECD Test G	uidalina 105
Result			s damage to eyes.
Rema			ven is based on tests on the mixture itself.
Rema	rks	: May cause irr	eversible eye damage.
-	oonents:		
React	tion mass of 4-meth	ylpentane-2,2-diyl d methylisobutylketor	
React	tion mass of 4-meth ihydroperoxide and		
React diyl d Specie Metho	tion mass of 4-meth ihydroperoxide and es od	methylisobutylketor : Rabbit : OECD Test G	uideline 405
React diyl d Specie	tion mass of 4-meth ihydroperoxide and es od	methylisobutylketor : Rabbit : OECD Test G	1:
React diyl d Specie Metho Result	tion mass of 4-meth ihydroperoxide and es od	methylisobutylketor : Rabbit : OECD Test G : Risk of serious	uideline 405
React diyl d Specie Metho Result	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep	methylisobutylketor : Rabbit : OECD Test G : Risk of serious	uideline 405 s damage to eyes.
React diyl d Specie Metho Result 2,2,4, Result	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep	methylisobutylketor : Rabbit : OECD Test G : Risk of serious	uideline 405 s damage to eyes.
React diyl d Specie Metho Result 2,2,4,0 Result Isobu Specie	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep t tyl methyl ketone: es	methylisobutylketor : Rabbit : OECD Test G : Risk of serious tane: : No eye irritation : Rabbit	uideline 405 s damage to eyes.
React diyl d Specie Metho Result 2,2,4, Result Isobur Specie Metho	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep t t tyl methyl ketone : es od	i methylisobutylketor : Rabbit : OECD Test G : Risk of serious tane: : No eye irritation : Rabbit : OECD Test G	uideline 405 s damage to eyes. on uideline 405
React diyl d Specie Metho Result 2,2,4,0 Result Isobu Specie	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep t t tyl methyl ketone : es od	methylisobutylketor : Rabbit : OECD Test G : Risk of serious tane: : No eye irritation : Rabbit	uideline 405 s damage to eyes. on uideline 405
React diyl d Specie Metho Result 2,2,4,1 Result Specie Metho Result	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep t t tyl methyl ketone : es od	 methylisobutylketor Rabbit OECD Test G Risk of serious tane: No eye irritation Rabbit OECD Test G Mild eye irritation 	uideline 405 s damage to eyes. on uideline 405
React diyl d Specie Metho Result 2,2,4,1 Result Specie Metho Result	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep t tyl methyl ketone : es od t hexyldimethylamine	 methylisobutylketor Rabbit OECD Test G Risk of serious tane: No eye irritation Rabbit OECD Test G Mild eye irritation 	uideline 405 s damage to eyes. on uideline 405
React diyl d Specie Metho Result 2,2,4, Result Specie Metho Result Cyclol Result	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep t tyl methyl ketone : es od t hexyldimethylamine	 methylisobutylketor Rabbit OECD Test G Risk of serious tane: No eye irritation Rabbit OECD Test G Mild eye irritation 	uideline 405 s damage to eyes. on uideline 405
React diyl d Specie Metho Result 2,2,4, Result Specie Metho Result Result Result	tion mass of 4-meth ihydroperoxide and es od t 6,6-pentamethylhep t t tyl methyl ketone: es od t hexyldimethylamine t	 methylisobutylketor Rabbit OECD Test G Risk of serious tane: No eye irritation Rabbit OECD Test G Mild eye irritation 	uideline 405 s damage to eyes. on uideline 405

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Respiratory sensitisation

Not classified due to lack of data.

Product:

Test Type Exposure routes Species Method Result Remarks	 Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 May cause sensitisation by skin contact. Information given is based on tests on the mixture itself. 	
Remarks	: Causes sensitisation.	

Components:

Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2-diyl dihydroperoxide and methylisobutylketon:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	May cause sensitisation by skin contact.

Isobutyl methyl ketone:

Test Type :	Maximisation Test
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	Does not cause skin sensitisation.

cyclohexyldimethylamine:

Test Type :	Local lymph node assay (LLNA)
Species :	Mouse
Method :	OECD Test Guideline 429
Result :	Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified due to lack of data.

Product:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Method: OECD Test Guideline 473 Result: positive

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		Test system: C	itro mammalian cell gene mutation test Chinese hamster ovary cells 9 Test Guideline 476 e
Geno	Genotoxicity in vivo :		ronucleus test e e marrow ute: Oral 0 Test Guideline 474 e
<u>Com</u>	ponents:		
	ction mass of 4-methy dihydroperoxide and		nydroperoxide,dioxybis-4-methylpentane-2,2- :
Geno	otoxicity in vitro	Test system: S	cterial reverse mutation assay (AMES) Salmonella typhimurium 9 Test Guideline 471 e
		Test system: H	romosome aberration test in vitro Iuman lymphocytes 9 Test Guideline 473
		Test system: C	itro mammalian cell gene mutation test Chinese hamster ovary cells D Test Guideline 476 e
Geno	otoxicity in vivo	: Test Type: Mic Species: Mous Cell type: Bone Application Ro Method: OECD Result: negative GLP: yes	e e marrow ute: Oral) Test Guideline 474
Gern	.,6,6-pentamethylhept n cell mutagenicity- As- ment		ot.
	utyl methyl ketone: otoxicity in vitro) Test Guideline 473
		Result: negative	e

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rsion	Revision Date: 04.03.2024	-	DS Number: 0000000276	Date of last issue: 08.03.2023 Date of first issue: 05.04.2016		
			Method: OECD Result: Equivoc	Test Guideline 476 al		
			Method: OECD Result: negative	Test Guideline 471		
Genotoxicity in vivo		:	Species: Mouse Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative			
cyclo	hexyldimethylamine	:				
Germ sessn	• •	:	Animal testing of	did not show any mutagenic effects.		
	nogenicity					
	ected of causing cance	er.				
<u>Prodι</u>						
-	1					
Rema	rks	:	This mormation	is not available.		
	rks ponents:	:	This mornation			
<u>Comp</u> React	oonents:	Ipent	ane-2,2-diyl dih	ydroperoxide,dioxybis-4-methylpentane-2		
<u>Comp</u> React	<u>ponents:</u> tion mass of 4-methy lihydroperoxide and i	Ipent	tane-2,2-diyl dih ylisobutylketon:	ydroperoxide,dioxybis-4-methylpentane-2,		
<u>Comp</u> React diyl d Rema	<u>ponents:</u> tion mass of 4-methy lihydroperoxide and i	lpent meth :	tane-2,2-diyl dih ylisobutylketon:	ydroperoxide,dioxybis-4-methylpentane-2		
Comp React diyl d Rema 2,2,4,4	oonents: tion mass of 4-methy lihydroperoxide and r rks	lpent meth :	tane-2,2-diyl dih ylisobutylketon: This informatior	ydroperoxide,dioxybis-4-methylpentane-2 is not available.		
Comp React diyl d Rema 2,2,4,0 Carcir ment	oonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhepta	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This informatior	ydroperoxide,dioxybis-4-methylpentane-2 is not available.		
Comp React diyl d Rema 2,2,4, Carcir ment Isobur Specie	oonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept nogenicity - Assess- tyl methyl ketone: es	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse	ydroperoxide,dioxybis-4-methylpentane-2 , n is not available. t.		
Comp React diyl d Rema 2,2,4, Carcir ment Isobur Specie Applic	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo	ydroperoxide,dioxybis-4-methylpentane-2 i is not available. t.		
Comp React diyl d Rema 2,2,4, Carcir ment Isobur Specie Applic	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route sure time	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse	ydroperoxide,dioxybis-4-methylpentane-2 n is not available. t.		
Comp React diyl d Rema 2,2,4,4 Carcin ment Specia Applic Expose NOAE Metho	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route sure time EL od	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo 2 Years 1,84 mg/l OECD Test Gu	ydroperoxide,dioxybis-4-methylpentane-2 , n is not available. t. nur) ideline 451		
Comp React diyl d Rema 2,2,4,4 Carcin ment Specia Applic Expos NOAE Metho Result	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route sure time EL od	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo 2 Years 1,84 mg/l	ydroperoxide,dioxybis-4-methylpentane-2 n is not available. t. nur) ideline 451		
Comp React diyl d Rema 2,2,4,4 Carcin ment Isobu Specie Applic Expos NOAE Metho Result Target	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route sure time t cure time t cure time t cure time t cure time cure time cure time cure time cure time	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo 2 Years 1,84 mg/l OECD Test Gu Suspected of c	ydroperoxide,dioxybis-4-methylpentane-2 n is not available. t. rur) ideline 451		
Comp React diyl d Rema 2,2,4,0 Carcir ment Isobur Specie Applic Expos NOAE Metho Result Target	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route sure time t t t Organs es cation Route	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo 2 Years 1,84 mg/l OECD Test Gu Suspected of c Liver Rat inhalation (vapo	ydroperoxide,dioxybis-4-methylpentane-2 n is not available. t. hur) ideline 451 ausing cancer.		
Comp React diyl d Rema 2,2,4, Carcir ment Isobur Specie Applic Expos NOAE Metho Result Target Specie Applic Expos	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route sure time t t t Organs es cation Route sure time	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo 2 Years 1,84 mg/l OECD Test Gu Suspected of c Liver Rat inhalation (vapo 2 Years	ydroperoxide,dioxybis-4-methylpentane-2 n is not available. t. hur) ideline 451 ausing cancer.		
Comp React diyl d Rema 2,2,4, Carcir ment Specie Applic Expos NOAE Metho Result Target Specie Applic Expos NOAE	bonents: tion mass of 4-methy lihydroperoxide and r rks 6,6-pentamethylhepta hogenicity - Assess- tyl methyl ketone: es cation Route sure time L od t t Organs es cation Route sure time L	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo 2 Years 1,84 mg/l OECD Test Gu Suspected of c Liver Rat inhalation (vapo 2 Years 1,84 mg/l	ydroperoxide,dioxybis-4-methylpentane-2 n is not available. t. uur) ideline 451 ausing cancer.		
Comp React diyl d Rema 2,2,4, Carcir ment Isobur Specie Applic Expos NOAE Metho Result Target Specie Applic Expos	tion mass of 4-methy hihydroperoxide and r rks 6,6-pentamethylhept hogenicity - Assess- tyl methyl ketone: es cation Route sure time EL od t Organs es cation Route sure time EL od	Ipent meth : ane:	tane-2,2-diyl dih ylisobutylketon: This information No known effec Mouse inhalation (vapo 2 Years 1,84 mg/l OECD Test Gu Suspected of c Liver Rat inhalation (vapo 2 Years	ydroperoxide,dioxybis-4-methylpentane-2, n is not available. t. nur) ideline 451 ausing cancer.		

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ersion 2	Revision Date: 04.03.2024	SDS Number: 60000000276	Date of last issue: 08.03.2023 Date of first issue: 05.04.2016
Carcii ment	nogenicity - Assess-	: Limited evider	nce of carcinogenicity in animal studies
•	hexyldimethylamine: nogenicity - Assess-		ty classification not possible from current data.
-	oductive toxicity lassified due to lack of	data.	
<u>Prode</u> Effect	<u>uct:</u> s on fertility	Application R General Toxic General Toxic Fertility: NOA Method: OEC	male and female oute: Oral city - Parent: NOAEL: 200 mg/kg body weight city F1: NOAEL: 600 mg/kg body weight EL: 600 mg/kg body weight ED Test Guideline 422 sed on data from similar materials
Effect ment	s on foetal develop-	Developmenta Method: OEC GLP: yes	females
<u>Com</u>	oonents:		
diyl c	tion mass of 4-methyl lihydroperoxide and r s on fertility	nethylisobutylketor Species: Rat, Application R General Toxic General Toxic Fertility: NOA Method: OEC	male and female
Effect ment	s on foetal develop-	Developmenta Method: OEC GLP: yes	females
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2,2,4,6,6-pentamethylheptan	e:	
Reproductive toxicity - As- sessment	:	No known effect.
Isobutyl methyl ketone:		
Effects on fertility	:	Test Type: Multi-generation study Species: Rat Application Route: inhalation (vapour) General Toxicity - Parent: NOAEL: 4,1 mg/l General Toxicity F1: NOAEL: 4,1 mg/l Fertility: NOAEL: 8,1 mg/l Method: OECD Test Guideline 416
Effects on foetal develop- ment	:	Species: Rat Application Route: Inhalation General Toxicity Maternal: NOEC: 4,1 ppm Teratogenicity: NOEC: 4,1 ppm Method: OECD Test Guideline 414 Result: No teratogenic effects
cyclohexyldimethylamine:		
	:	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
STOT - single exposure		
Not classified due to lack of da	ta.	
Components:		
Isobutyl methyl ketone:		
Target Organs Assessment	:	Central nervous system May cause drowsiness or dizziness.
cyclohexyldimethylamine:		
Assessment	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure Not classified due to lack of da	ıta.	
Components:		
Isobutyl methyl ketone:		
Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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cyclohexyldimethylamine:

Assessment

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2-diyl dihydroperoxide and methylisobutylketon:

Species :	Rat, male and female
NOAEL :	150 mg/kg bw/day
Exposure time :	90d
Method :	OECD Test Guideline 408
GLP :	yes
Remarks :	Based on data from similar materials

:

Isobutyl methyl ketone:

Species	:	Rat
	:	50 mg/kg
NOAEL	:	250 mg/kg
LOAEL	:	1.000 mg/kg
Application Route	:	oral (gavage)
Exposure time	:	13 w
Method	:	OECD Test Guideline 408

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

May be fatal if swallowed and enters airways.

Components:

Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2-diyl dihydroperoxide and methylisobutylketon:

May be fatal if swallowed and enters airways.

2,2,4,6,6-pentamethylheptane:

May be fatal if swallowed and enters airways.

Isobutyl methyl ketone:

Not classified due to data which are conclusive although insufficient for classification.

cyclohexyldimethylamine:

Not classified due to data which are conclusive although insufficient for classification.

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11.2 Information on other hazards

Endocrine disrupting properties				
Product:				
Assessment :	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.			
Further information				
Product:				
Remarks :	Solvents may degrease the skin.			
Components:				
2,2,4,6,6-pentamethylheptane:				
Remarks :	May cause headache and dizziness.			

SECTION 12: Ecological information

12.1 Toxicity

Product:	
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): 1,89 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Information given is based on tests on the mixture itself.
	NOEC (Danio rerio (zebra fish)): 1,38 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Information given is based on tests on the mixture itself.
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia (water flea)): 4,48 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Information given is based on tests on the mixture itself.
	NOEC (Daphnia magna (Water flea)): 2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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			Remarks: Inforritself.	mation given is based on tests on the mixture
Toxici plants	ity to algae/aquatic	:	1,33 mg/l Exposure time: Method: OECD	celis subcapitata (freshwater green alga)): 72 h 9 Test Guideline 201 mation given is based on tests on the mixture
			0,94 mg/l Exposure time: Method: OECD	ocelis subcapitata (freshwater green alga)): 72 h 9 Test Guideline 201 mation given is based on tests on the mixture
Toxici	ity to microorganisms	:	Method: OECD	a): 12,8 mg/l spiration inhibition of activated sludge Test Guideline 209 mation given is based on tests on the mixture
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	Toxic to aquation	c life.
Chron	ic aquatic toxicity	:	Toxic to aquation	c life with long lasting effects.
<u>Com</u> p	<u>oonents:</u>			
	tion mass of 4-methylp lihydroperoxide and m			nydroperoxide,dioxybis-4-methylpentane-2,2-
-	ity to fish		LC50 (Danio re Exposure time:	erio (zebra fish)): 1,89 mg/l
			Exposure time:	rerio (zebra fish)): 1,38 mg/l : 96 h 9 Test Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time:	(water flea)): 4,48 mg/l : 48 h 9 Test Guideline 202
			Exposure time:	a magna (Water flea)): 2 mg/l : 48 h 9 Test Guideline 202
Toxici plants	ity to algae/aquatic	:	EC50 (Raphido 1,33 mg/l	celis subcapitata (freshwater green alga)):

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				Exposure time: 72 Method: OECD Te	
				NOEC (Raphidoce 0,94 mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC10 (Bacteria): Test Type: Respir Method: OECD Te	ation inhibition of activated sludge
	2,2,4,6,	6-pentamethylheptan	e:		
		to daphnia and other invertebrates	:	Exposure time: 48	tion given is based on data obtained from
	Toxicity plants	v to algae/aquatic	:	IC50 (algae): > 0, Exposure time: 72 Remarks: Informa similar substance:	2 h tion given is based on data obtained from
	Ecotox	icology Assessment			
	Acute a	aquatic toxicity	:	This product has	no known ecotoxicological effects.
	Chronic	aquatic toxicity	:	May cause long la	asting harmful effects to aquatic life.
	Isobuty	/I methyl ketone:			
	Toxicity		:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	ErC50 (Lemna git End point: Growth Method: OECD Te	
				EC10 (Lemna gib Method: OECD Te	ba (gibbous duckweed)): >146 mg/l est Guideline 221
	Toxicity	to microorganisms	:	EC50 (Pseudomo Exposure time: 16 Method: DIN 384	
	Toxicity	v to daphnia and other	:	NOEC: 30 - 35 m	g/I

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	aquatic ic toxici	invertebrates (Chron- ity)		Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	cyclohe Toxicity	exyldimethylamine: [/] to fish	:	LC50 (Leuciscus i Exposure time: 96 Test Type: static t Method: DIN 3841	est
		to daphnia and other invertebrates	:	LC50 (Daphnia ma Exposure time: 48 Test Type: static t Method: OECD Te	est
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Test Type: Growth Method: OECD Te	inhibition
				EC10 (Pseudokirc mg/l Exposure time: 72 Test Type: Growth Method: OECD Te	inhibition
	Toxicity	to microorganisms	:	EC10 (Pseudomor Exposure time: 17	nas putida): 137 mg/l h

12.2 Persistence and degradability

Product:

Biodegradability	Method: OECD Test Guid	Result: Readily biodegradable. Method: OECD Test Guideline 301D
		Remarks: Information given is based on data on the compo- nents and the ecotoxicology of similar products.

Components:

Reaction mass of 4-methylpentane-2,2-diyl dihydroperoxide,dioxybis-4-methylpentane-2,2- diyl dihydroperoxide and methylisobutylketon:				
Biodegradability	: Result: Readily biodegradable. Method: OECD Test Guideline 301D			
2,2,4,6,6-pentamethylheptane:				

Biodegradability : Result: Not readily biodegradable.

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ls	butyl methyl ketone:			
Bi	odegradability	:	Biodegradation Exposure time	
су	clohexyldimethylamine:			
Bi	odegradability	:	Result: Readil	y biodegradable.
12.3 Bi	oaccumulative potential			
<u>Co</u>	omponents:			
	eaction mass of 4-methylp yl dihydroperoxide and m			hydroperoxide,dioxybis-4-methylpentane-2,2- I:
	ntition coefficient: n- tanol/water	:		20 °C) D Test Guideline 117
2,2	2,4,6,6-pentamethylhepta	ne:		
	ntition coefficient: n- tanol/water	:	log Pow: 5,94 Remarks: The	- 6,16 (20 °C) value is calculated
lse	obutyl methyl ketone:			
	ntition coefficient: n- tanol/water	:	log Pow: 1,9	
су	clohexyldimethylamine:			
Bi	paccumulation	:	Bioconcentrati Remarks: Cal	on factor (BCF): 35,66 culation
	obility in soil			
	data available			
12.5 R	esults of PBT and vPvB a	SSE	ssment	
	oduct: sessment		This substand	o/mixture contains no components considered
A	sessment	•	to be either pe	e/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of .
12.6 Ei	ndocrine disrupting prope	ertie	es	
<u>Pr</u>	oduct:			
As	sessment	:		e/mixture does not contain components consid- endocrine disrupting properties according to

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REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:		
Additional ecological infor-	:	An environmental hazard cannot be excluded in the event of
mation		unprofessional handling or disposal.
		Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product :	Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container.
	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging :	Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste disposal plant. Empty remaining contents. 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 or ID number

ADN	: UN 31	05
ADR	: UN 31	05
RID	: UN 31	05
IMDG	: UN 31	05
ΙΑΤΑ	: UN 31	05

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14.2 UN proper shipping name

ADN	ORGANIC PEROXIDE TYPE D, LIQUII (METHYL ISOBUTYL KETONE PERO	
ADR	ORGANIC PEROXIDE TYPE D, LIQUII (METHYL ISOBUTYL KETONE PERO	
RID	ORGANIC PEROXIDE TYPE D, LIQUII (METHYL ISOBUTYL KETONE PERO	
IMDG	ORGANIC PEROXIDE TYPE D, LIQUII (METHYL ISOBUTYL KETONE PERO	
ΙΑΤΑ	Organic peroxide type D, liquid (Methyl isobutyl ketone peroxide(s))	

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 5.2	
ADR	: 5.2	
RID	: 5.2	
IMDG	: 5.2	
ΙΑΤΑ	: 5.2	HEAT

14.4 Packing group

ADN Packing group Classification Code Labels	:	Not assigned by regulation P1 5.2
ADR Packing group Classification Code Labels Tunnel restriction code	:	Not assigned by regulation P1 5.2 (D)
RID Packing group Classification Code Hazard Identification Number Labels	: : :	Not assigned by regulation P1 539 5.2
IMDG Packing group Labels EmS Code	:	Not assigned by regulation 5.2 F-J, S-R
IATA (Cargo) Packing instruction (cargo aircraft) Packing group	:	570 Not assigned by regulation

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Lab	oels		:	Organic Peroxide	s, Keep Away From Heat
Pa	A (Passeng cking instruct aircraft)	er) tion (passen-	:	570	
Pa	cking group bels		:	Not assigned by Organic Peroxide	regulation s, Keep Away From Heat
14.5 En	vironmental	hazards			
AD Env		hazardous	:	yes	
AD Env		hazardous	:	yes	
RIE Env) vironmentally	hazardous	:	yes	

SDS Number:

14.6 Special precautions for user

IMDG

Marine pollutant

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

: yes

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		If you intend to use this product as tattoo ink, please contact your ven- dor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de-	:	Not applicable

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plete the ozone layer

Regulation (EU) 2019/1021 on persistent organitants (recast)	ic pollu-	: Not applicable
Regulation (EC) No 649/2012 of the European ment and the Council concerning the export and of dangerous chemicals		: Not applicable
REACH - List of substances subject to authorisa (Annex XIV)	ation	: Not applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
	E2	ENVIRONMENTAL HAZARDS

Water hazard class (Germa-	:	WGK 2 obviously hazardous to water
ny)		Classification according to AwSV, Annex 1 (5.2)

Other regulations:

Gefahrgruppe nach TRGS 741: lb (German regulatory requirements)

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:				
TCSI (TW)	:	On the inventory, or in compliance with the inventory		
DSL (CA)	:	All components of this product are on the Canadian DSL		
PICCS (PH)	:	On the inventory, or in compliance with the inventory		
IECSC (CN)	:	On the inventory, or in compliance with the inventory		

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance. For further information see eSDS.

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SECTION 16: Other information

Further information			
Other information	:	safety and does not repla uct specification. These safety instructions may still contain product	ly contains information relating to ace any product information or prod- s also apply to empty packaging which residues. I also apply to residues in the con-
Sources of key data used to compile the Safety Data Sheet	:		lata from raw material SDSs, OECD sults and European Chemicals Agen- /
Classification of the mixture	e:		Classification procedure:
Flam. Liq. 3	H22	26	Based on product data or assessment
Org. Perox. D	H24	2	Based on product data or assessment
Acute Tox. 4	H3C	2	Based on product data or assessment
Acute Tox. 4	H33	32	Based on product data or assessment
Skin Corr. 1C	H31	4	Based on product data or assessment
Eye Dam. 1	H31	8	Based on product data or assessment
Skin Sens. 1	H31	7	Based on product data or assessment
Carc. 2	H35	51	Calculation method
Asp. Tox. 1	H3C)4	Based on product data or assessment
Aquatic Chronic 2	H41	1	Based on product data or assessment

Full text of H-Statements

H225 :	Highly flammable liquid and vapour.
H226 :	Flammable liquid and vapour.
H242 :	Heating may cause a fire.
H301 :	Toxic if swallowed.
H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H311 :	Toxic in contact with skin.
H314 :	Causes severe skin burns and eye damage.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.

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H331 H332 H336 H351 H411 H412 H413		: : : : : : : : : : : : : : : : : : : :	Harmful to aquatic	
EUH06	6	:		e may cause skin dryness or cracking.
Full tex	kt of other abbreviation	ons		
Acute T Aquatic Asp. To Carc. Eye Da Eye Irri Flam. L Org. Pe Skin Co Skin Se STOT S 2000/35	c Chronic cx. m. t. .iq. erox. orr. ens. SE		Europe. Commissi list of indicative oc	ge an toxicity - single exposure ion Directive 2000/39/EC establishing a first cupational exposure limit values
TRGS 2000/39 2000/39	GS 900 903 9/EC / TWA 9/EC / STEL GS 900 / AGW	:		900 - Occupational exposure limit values. gical limit values hours rre limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

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.

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