Revision Date:

CUROX[®]M-303

Version



Date of last issue: 08.07.2022

2.0	10.10.2023	6000	00000313	Date of first issue: 16.02.2022
1. PRO	DUCT AND COMPANY	IDENTI	ICATION	
Pr	oduct name	:	CUROX [®] M-303	3
Ma	anufacturer or supplie	r's detail	S	
Co	ompany	:	United Initiator	s GmbH
Ac	ldress		DrGustav-Ado 82049 Pullach	•
Те	lephone	:	+49 / 89 / 7442	22 – 0

SDS Number:

E-mail address :	contact@united-in.com
------------------	-----------------------

Emergency telephone number : +44 1235 239671

Recommended use of the chemical and restrictions on use

Recommended use	: Curing chemical
-----------------	-------------------

2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids	:	Category 4
Organic peroxides	:	Type D
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin corrosion/irritation	:	Sub-category 1B
Serious eye damage/eye irri- tation	:	Category 1
Reproductive toxicity	:	Category 2
Short-term (acute) aquatic hazard	:	Category 2

GHS label elements

Hazard pictograms





Version 2.0	Revision Date: 10.10.2023	SDS Number: 60000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
-	l word d statements	H302 + H332 H H314 Causes s	ible liquid. nay cause a fire. tarmful if swallowed or if inhaled. severe skin burns and eye damage. ted of damaging the unborn child.
Preca	utionary statements	P210 Keep awa and other ignition P234 Keep only P240 Ground a P261 Avoid bree P264 Wash ski P270 Do not ea P271 Use only P273 Avoid rele	aquatic life. ead and follow all safety instructions before use. ay from heat, hot surfaces, sparks, open flames on sources. No smoking. y in original packaging. and bond container and receiving equipment. eathing mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. ease to the environment. tective gloves/ protective clothing/ eye protec-
		tion/ face protect Response: P301 + P317 + Rinse mouth. P301 + P330 + induce vomiting P302 + P361 + contaminated cominutes.	P330 IF SWALLOWED: Get medical help. P331 IF SWALLOWED: Rinse mouth. Do NOT
		and keep comfe help immediate P305 + P354 + with water for s sent and easy t P318 IF expose P363 Wash com P370 + P378 Ir	ortable for breathing. Get emergency medical
		P405 Store lo P410 Protect P411 Store a P420 Store s Disposal:	n a well-ventilated place. bocked up. from sunlight. It temperatures not exceeding < 30 °C/ < 86 °F. eparately. of contents/ container to an approved waste



VersionRevision Date:SDS Number:Date of last issue: 08.07.20222.010.10.202360000000313Date of first issue: 16.02.2022	
-----------------------------------------------------------------------------------------------------------------------	--

I

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Organic Peroxide Liquid mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
dimethyl phthalate	131-11-3	>= 55 - < 65
2-Butanone, peroxide	1338-23-4	>= 30 - < 35
hydrogen peroxide	7722-84-1	>= 1 - < 2.5
2-methylpentane-2,4-diol	107-41-5	>= 0.1 - < 1

4. FIRST AID MEASURES

 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.
Administer oxygen if breathing is difficult or cyanosis is ob- served. Call a physician immediately. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Respiratory tract burning possible if aerosols are inhaled. Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.
If symptoms persist, call a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use.



/ersion 2.0	Revision Date: 10.10.2023	SDS Number: 60000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022	
			se well with water. remove clothes.	
In case of eye contact		 Small amounts splashed into eyes can cause irreversible to sue damage and blindness. In the case of contact with eyes, rinse immediately with pleto of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. 		
If swallowed		Rinse mouth Keep respirat Do NOT indu	ian immediately. thoroughly with water. ory tract clear. ce vomiting. persist, call a physician.	
Most important symptoms and effects, both acute and delayed		Causes serio	allowed or if inhaled. us eye damage. damaging the unborn child. re burns.	
Prote	ction of first-aiders		onders should pay attention to self-protection ecommended protective clothing	
Notes	to physician	: Treat sympto	matically and supportively.	

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	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.



Version 2.0	Revision Date: 10.10.2023		DS Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022	
Specific extinguishing meth- ods		 Vapours may form explosive mixtures with air. The product will float on water and can be reignited on su water. Cool closed containers exposed to fire with water spray. Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. must not be discharged into drains. Fire residues and contaminated fire extinguishing water m be disposed of in accordance with local regulations. 			
			fire. Remove undama so.	d water stream as it may scatter and spread ged containers from fire area if it is safe to do to cool unopened containers.	
Special protective equipment for firefighters			essary.	ed breathing apparatus for firefighting if nec- tective equipment.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	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. Remove all sources of ignition. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".
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.
Methods and materials for containment and 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-



/ersion 2.0	Revision Date: 10.10.2023		S Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
			employed in the	tterial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable.
. Handli	NG AND STORAGE			
Techn	ical measures	:		g measures under EXPOSURE RSONAL PROTECTION section.
	e on protection against d explosion	:	(which might ca Keep away from Use only explose Keep away from ignition. Keep away from	action to avoid static electricity discharge suse ignition of organic vapours). The heat and sources of ignition. sion-proof equipment. The open flames, hot surfaces and sources of the combustible material. The a naked flame or any incandescent material.
Advice	e on safe handling	:	Protect from co Do not swallow. Do not breathe Avoid contact w Avoid formation Take precaution Never return an originally remov Provide sufficien Avoid confineme Keep away from other ignition so Smoking, eating plication area. Wash thoroughl	vapours/dust. vith skin and eyes. of aerosol. ary measures against static discharges. y product to the container from which it was ed. nt air exchange and/or exhaust in work rooms
Condit	ions for safe storage	:	Store in cool pla Keep in a well-v Contamination closed containe Observe label p Store in accorda Avoid impurities Electrical install the technologica Containers whic	s tightly closed in a cool, well-ventilated place ace. entilated place. may result in dangerous pressure increases - rs may rupture.
Matari	als to avoid		Keen away from	n strong acids, bases, heavy metal salts and

CUROX[®]M-303



Versio 2.0	on	Revision Date: 10.10.2023		DS Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
				other reducing su	hstances
				other reducing 30	batanees.
	Recom	mended storage tem-	:	< 30 °C	
	Further	information on stor- bility	:	No decomposition	if stored normally.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
dimethyl phthalate	131-11-3	TWA	5 mg/m3	ACGIH
2-Butanone, peroxide	1338-23-4	С	0.2 ppm	ACGIH
hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
2-methylpentane-2,4-diol	107-41-5	TWA (Va- pour)	25 ppm	ACGIH
		STEL (Va- pour)	50 ppm	ACGIH
		STEL (Inhal- able fraction, Aerosol only)	10 mg/m3	ACGIH

Engineering measures : Minimize workplace exposure concentrations.

Personal protective equipm	ent	
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Filter type	:	ABEK-filter
Hand protection Material Break through time Glove thickness Material Break through time Glove thickness	-	Nitrile rubber < 30 min 0.40 mm butyl-rubber 480 min 0.47 mm
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-

Personal protective equipment



Version 2.0	Revision Date: 10.10.2023	SDS Number: 60000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
			aforementioned protective gloves with the glove er. Wash hands before breaks and at the end of
Eye p	protection	the worksta Please follo selecting pr Always wea eye contac Tightly fittin Please wea	e eyewash stations and safety showers are close to tion location. w all applicable local/national requirements when otective measures for a specific workplace. ar eye protection when the potential for inadvertent with the product cannot be excluded. g safety goggles r suitable protective goggles. Also wear face pro- ere is a splash hazard.
Skin a	and body protection	sistance da tial. Additional t being perfo suits) to ave Wear as ap	opriate protective clothing based on chemical re- ta and an assessment of the local exposure poten- ody garments should be used based upon the task rmed (e.g., sleevelets, apron, gauntlets, disposable oid exposed skin surfaces. propriate: dant antistatic protective clothing.
Prote	ctive measures	to the conc	protective equipment must be selected according entration and amount of the dangerous substance fic workplace.
Hygie	ene measures	Keep away When using When using	act with skin, eyes and clothing. from food and drink. g do not eat or drink. g do not smoke. s before breaks and immediately after handling the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless, clear
Odour	: mint-like
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: not determined



Versio 2.0	on	Revision Date: 10.10.2023		S Number: 000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
	nitial bo ange	piling point and boiling	:	Decomposition:	Decomposes below the boiling point.
FI	lash po	pint	:	> 80 °C	
				Method: ISO 367	9, closed cup
FI	lamma	bility (solid, gas)	:	Not applicable	
FI	lamma	bility (liquids)	:	Flammable liquid	
S	Self-igni	tion	:	The substance or	r mixture is not classified as pyrophoric.
		explosion limit / Upper pility limit	:	Upper explosion not determined	limit
		explosion limit / Lower bility limit	:	Lower explosion not determined	limit
V	/apour	pressure	:	not determined	
R	Relative	vapour density	:	not determined	
R	Relative	density	:	not determined	
D	Density		:	ca. 1.1 g/cm3 (20) °C)
S	Solubilit Wate	y(ies) er solubility	:	slightly soluble	
	Solu	bility in other solvents	:	Solvent: organic s Description: solut	
				Solvent: Phthalat Description: solut	
	Partition	n coefficient: n- water	:	Not applicable	
A	uto-igr	nition temperature	:	not determined	
		celerating decomposi- perature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
V	/iscosit Visc	y osity, dynamic	:	ca. 9 - 15 mPa.s	(20 °C)

CUROX[®]M-303



Versio 2.0	on Revision Date: 10.10.2023	SDS Number: 600000000313		Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
	Viscosity, kinematic	:	not determined	
E	explosive properties	:	Not explosive In air mixture.	use, may form flammable/explosive vapour-
C	Dxidizing properties	:	The substance of Organic peroxide	r mixture is not classified as oxidizing.
S	Self-heating substances	:	The substance of	r mixture is not classified as self heating.
10. S ⁻	TABILITY AND REACTIVITY	,		
F	Reactivity	:		ommended storage conditions. se a fire or explosion.
C	Chemical stability	:		ommended storage conditions. n if stored normally.
	Possibility of hazardous reac-	:	Vapours may forr	n explosive mixture with air.
C	Conditions to avoid	:	Protect from cont Contact with incc tion at or below S Heat, flames and Avoid confinement	mpatible substances can cause decomposi- ADT. sparks.
lı	ncompatible materials	:		ong acids and bases, heavy metals and s, reducing agents
	lazardous decomposition products	:		ammable, noxious/toxic gases and vapours te case of fire and decomposition

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 1,401 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 4.24 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method



Version 2.0	Revision Date: 10.10.2023	SDS N 600000		Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
<u>Com</u>	ponents:			
dime	ethyl phthalate:			
	e oral toxicity	: LDS	50 (Rat): > 5,0	00 mg/kg
Acut	e inhalation toxicity	Exp Tes	at): > 10.4 mg bosure time: 6 t atmosphere: narks: No mo	h
Acut	e dermal toxicity	: LDS	50 (Rabbit): >	12,000 mg/kg
2-Bu	tanone, peroxide:			
Acut	e oral toxicity		ite toxicity est hod: Expert ju	imate: 500 mg/kg udgement
Acut	e inhalation toxicity	Exp Tes Met Ass sho	oosure time: 4 t atmosphere hod: Expert ju essment: The rt term inhala	dust/mist idgement component/mixture is moderately toxic after
Acut	e dermal toxicity		ite toxicity est hod: Expert ju	imate: 2,500 mg/kg idgement
hvdr	ogen peroxide:			
-	e oral toxicity	Met Ass	hod: Expert ju	and female): 431 mg/kg idgement component/mixture is moderately toxic after
Acut	e inhalation toxicity	Exp Tes Ass sho Rer	oosure time: 4 t atmosphere sessment: The rt term inhalat	dust/mist component/mixture is moderately toxic after ion. on harmonised classification in EU regulation
Acut	e dermal toxicity	Rer	50 (Rabbit): 9, narks: No adv / tests.	200 mg/kg erse effect has been observed in acute tox-
2-me	thylpentane-2,4-diol:			
	e oral toxicity	Met	essment: The	00 mg/kg est Guideline 420 substance or mixture has no acute oral tox-



rsion	Revision Date: 10.10.2023	-	0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
			Remarks: No r	nortality observed at this dose.
Acute	inhalation toxicity	:	LC50 (Rat, ma	
Acute			Exposure time Test atmosphe Assessment: T tion toxicity	: 8 h
Acute	dermal toxicity	:	Assessment: T	> 2,000 mg/kg) Test Guideline 402 he substance or mixture has no acute derm
			toxicity Remarks: No r	nortality observed at this dose.
-	corrosion/irritation			
<u>Produ</u>	ict:			
Rema		:	Extremely corr	osive and destructive to tissue.
<u>Comp</u>	onents:			
dimet	hyl phthalate:			
Specie	es	:	Rabbit	
Metho		:	Draize Test	
Result	t	:	No skin irritatio	n
2-Buta	anone, peroxide:			
Specie		:	Rabbit	
Result	t	:	Causes burns.	
hydro	gen peroxide:			
Result	t	:	Corrosive after	3 minutes or less of exposure
2-met	hylpentane-2,4-diol:			
Specie	es	:	Rabbit	
Metho		:	OECD Test Gu	iideline 404
Result		:	Skin irritation	
Rema	rks	:	Based on harm 1272/2008, An	nonised classification in EU regulation nex VI
Serio	us eye damage/eye i	rritat	ion	
	es serious eye damage			
	ict.			
Produ	161.			



rsion)	Revision Date: 10.10.2023	SDS Number: 60000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
<u>Comp</u>	onents:		
dimet	hyl phthalate:		
Specie		: Rabbit	
Metho		: OECD Test C	
Result		: No eye irritati	on
2-Buta	none, peroxide:		
Result		: Irreversible ef	ffects on the eye
hydro	gen peroxide:		
Result		: Irreversible et	ffects on the eye
Remar	ks	: hydrogen per	
Remar	ks	: May cause irr	eversible eye damage.
2-met	hylpentane-2,4-diol:		
Specie	es	: Rabbit	
Metho		: OECD Test G	Guideline 405
Result		: irritating	
	ko	· Bacad on har	monicod classification in EU regulation
Remar	ks	: Based on har 1272/2008, A	monised classification in EU regulation nnex VI
Remar	ks ratory or skin sensit	1272/2008, A	
Remar Respi r		1272/2008, A	
Remar Respir Skin s	ratory or skin sensit	1272/2008, A isation	
Remar Respin Skin s Not cla	ratory or skin sensit ænsitisation	1272/2008, A isation	
Remar Respin Skin s Not cla Respin	ratory or skin sensit ensitisation assified based on ava	1272/2008, A i sation ilable information.	
Remar Respin Skin s Not cla Respin Not cla	ratory or skin sensit ensitisation assified based on ava ratory sensitisation	1272/2008, A i sation ilable information.	
Remar Respin Skin s Not cla Respin Not cla <u>Comp</u>	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava	1272/2008, A i sation ilable information.	
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate:	1272/2008, A isation ilable information. ilable information. : Mouse	nnex VI
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet Specie Metho	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: es	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G	nnex VI Guideline 429
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: es	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G	nnex VI
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet Specie Metho Result	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: es	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G	nnex VI Guideline 429
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet Specie Metho Result 2-Buta Specie	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: es d	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G : Does not cau : Guinea pig	Suideline 429 se skin sensitisation.
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet Specie Metho Result 2-Buta Specie Metho	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: as d	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G : Does not cau : Guinea pig : OECD Test G	nnex VI Guideline 429 se skin sensitisation. Guideline 406
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet Specie Metho Result 2-Buta Specie	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: as d	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G : Does not cau : Guinea pig : OECD Test G	Suideline 429 se skin sensitisation.
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet Specie Metho Result 2-Buta Specie Metho	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: es d	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G : Does not cau : Guinea pig : OECD Test G : Does not cau	nnex VI Guideline 429 se skin sensitisation. Guideline 406
Reman Respin Skin s Not cla Respin Not cla <u>Comp</u> dimet Specie Metho Result Specie Metho Result	ratory or skin sensit ensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: es d	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G : Does not cau : Guinea pig : OECD Test G : Does not cau : Harmful if swa	Auideline 429 Se skin sensitisation.
Reman Respin Skin s Not cla Respin Not cla Comp dimet Specie Methor Result Specie Methor Result Asses 2-methor	ratory or skin sensit sensitisation assified based on ava ratory sensitisation assified based on ava onents: hyl phthalate: es d none, peroxide: es d sment	1272/2008, A isation ilable information. ilable information. : Mouse : OECD Test G : Does not cau : Guinea pig : OECD Test G : Does not cau : Harmful if swa	Annex VI Guideline 429 se skin sensitisation. Guideline 406 se skin sensitisation. allowed., Harmful if inhaled.



Version 2.0	Revision Date: 10.10.2023	SDS Number:Date of last issue: 08.07.202260000000313Date of first issue: 16.02.2022
Spec Meth Resu	od	 Guinea pig OECD Test Guideline 406 Does not cause skin sensitisation.
Not c	n cell mutagenicity lassified based on av ponents:	ailable information.
	thyl phthalate: toxicity in vitro	: Method: OECD Test Guideline 471 Result: negative
		Method: OECD Test Guideline 473 Result: negative
		Method: OECD Test Guideline 476 Result: positive
Geno	toxicity in vivo	: Test Type: Chromosomal aberration Species: Rat Application Route: Intraperitoneal Result: negative
		Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative
2-Ru	tanone, peroxide:	
	stoxicity in vitro	: Method: OECD Test Guideline 473 Result: negative
		Method: OECD Test Guideline 471 Result: negative
		Method: OECD Test Guideline 476 Result: negative
bydr	ogen peroxide:	
-	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative positive Remarks: Information taken from reference works and the literature.
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive Remarks: Information taken from reference works and the



			0000000313	Date of first issue: 16.02.2022
			literature.	
Genotoxicity in vivo		:	cytogenetic as Species: Mous Method: OECI Result: negativ	e (male and female) D Test Guideline 474
Germ o Assess	cell mutagenicity - sment	:	Based on available data, the classification criteria are	
2-meth	ylpentane-2,4-diol:			
Genotoxicity in vitro		:	Metabolic activ	ation: with and without metabolic activation D Test Guideline 471
			Test system: r Metabolic activ	<i>u</i> itro mammalian cell gene mutation test nouse lymphoma cells <i>v</i> ation: with and without metabolic activation D Test Guideline 476 e
			Test system: (Metabolic activ	romosome aberration test in vitro Chinese hamster ovary cells vation: with and without metabolic activation D Test Guideline 473 e
	cell mutagenicity - sment	:	In vitro tests di	d not show mutagenic effects
Carcin	ogenicity			
Not cla	assified based on ava	ilable	information.	
Compo	onents:			
dimeth	nyl phthalate:			
Specie	s ation Route	:	Rat Skin contact	
Method		:	OECD Test G	uideline 451
Result		:	negative	
Remarl	ks	:	Based on data	from similar materials
2-Buta	none, peroxide:			
Remar	-	:	This informatio	n is not available.



Version 2.0	Revision Date: 10.10.2023	-	DS Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022			
Ca	hydrogen peroxide: Carcinogenicity - Assess- ment 2-methylpentane-2,4-diol: Remarks		: Carcinogenicity classification not possible from current				
			This information i	s not available.			
Ca me	rcinogenicity - Assess- nt	:	Based on availabl	e data, the classification criteria are not met.			
Su	productive toxicity spected of damaging the	unbo	rn child.				
	<u>mponents:</u>						
	nethyl phthalate: ects on fertility	:	Species: Rat Application Route Method: OECD T Result: negative	: oral (gavage) est Guideline 440			
Effe me	ects on foetal develop- nt	:	Developmental To	: Ingestion Maternal: NOAEL: 840 mg/kg body weight oxicity: NOAEL: 3,570 mg/kg body weight est Guideline 414			
2-F	utanone, peroxide:						
	ects on fertility	:	Species: Rat Application Route General Toxicity Method: OECD T Result: negative	Parent: NOAEL: 50 mg/kg body weight			
hve	drogen peroxide:						
Re	productive toxicity - As- ssment	:	No data available				
2-n	nethylpentane-2,4-diol:						
	ects on fertility	:	Species: Rat Strain: wistar Application Route Method: OECD T Result: negative	: oral (gavage) est Guideline 443			
	productive toxicity - As- ssment	:		f adverse effects on development, based on ts., Suspected of damaging the unborn			



Version 2.0	Revision Date: 10.10.2023	SDS Nu 6000000		Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
		child	l.	
Not c	Γ - single exposure lassified based on avail ponents:	able inform	nation.	
hydro Targe	ogen peroxide: et Organs ssment		biratory Tract cause respir	t ratory irritation.
	thylpentane-2,4-diol: ssment			r mixture is not classified as specific target ingle exposure.
Not c	F - repeated exposure lassified based on avail ponents:	able inform	nation.	
	ogen peroxide:	: No c	lata available	
	thylpentane-2,4-diol: ssment			r mixture is not classified as specific target epeated exposure.
Repe	ated dose toxicity			
Com	ponents:			
Spec NOAI Applie	EL cation Route sure time	: Oral : 16 w		eline 408
	anone, peroxide:	_		
	EL cation Route sure time	: oral : 28 d	mg/kg (gavage) CD Test Guid	eline 407
	ated dose toxicity - ssment	: Harn	nful if swallo	wed., Harmful if inhaled.
	ogen peroxide:			



Version	Revision Date:	SDS Number:	Date of last issue: 08.07.2022
2.0	10.10.2023	60000000313	Date of first issue: 16.02.2022

louse, female 7 mg/kg ral (drinking water) 0 d ydrogen peroxide, 35%
louse, males 6 mg/kg ral (drinking water) 0 ydrogen peroxide, 35%
1 6 7 0

2-methylpentane-2,4-diol:

Species	:	Rat, male and female
NOAEL	:	450 mg/kg bw/day
Application Route	:	Ingestion
Exposure time	:	90
Method	:	OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

Components:

dimethyl phthalate:

No aspiration toxicity classification

hydrogen peroxide:

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

2-methylpentane-2,4-diol:

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

Further information

Product:

Remarks

: No data available

Components:

dimethyl phthalate:		
Remarks	:	No data available



Version 2.0	Revision Date: 10.10.2023	SDS Number: 60000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022	

12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
dimethyl phthalate: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 39 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 52 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 260 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50: 4,100 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209
Toxicity to fish (Chronic tox- icity)	:	NOEC: 11 mg/l Exposure time: 102 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
		LOEC: 24 mg/l Exposure time: 102 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 9.6 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
		LOEC: 23 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
2-Butanone, peroxide:		
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 44.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		NOEC (Poecilia reticulata (guppy)): 18 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h Method: OECD Test Guideline 202



Vers 2.0	sion	Revision Date: 10.10.2023		9S Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
					nagna (Water flea)): 26.7 mg/l
	Toxicity plants	to algae/aquatic	:	Method: OECD Te EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	hneriella subcapitata (green algae)): 5.6 h
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50 (Bacteria): 4 Exposure time: 0.8 Method: OECD Te	5 h
	hydrog Toxicity	en peroxide: to fish	:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): 16.4 mg/l h
		to daphnia and other invertebrates	:	LC50 (Daphnia pu Exposure time: 48	lex (Water flea)): 2.4 mg/l h
	Toxicity plants	to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 1.38 mg/l h
				NOEC (Skeletone Exposure time: 72	ma costatum (marine diatom)): 0.63 mg/l h
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 I Method: OECD Te	
	-	to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.63 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)
	2-meth	ylpentane-2,4-diol:			
	Toxicity	•	:	LC50 (Gambusia a Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l End point: Growth Exposure time: 72	



Version 2.0	Revision Date: 10.10.2023	-	S Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022		
			NOEC (Raphid 729 mg/l End point: Grov Exposure time: Test Type: stati	Test Guideline 201 ocelis subcapitata (freshwater green alga)): wth rate 72 h		
Toxic	city to microorganisms	:	Remarks: No d	ata available		
Pers	Persistence and degradability					
<u>Com</u>	ponents:					
	e thyl phthalate: egradability	:	Result: Readily Method: OECD	biodegradable. Test Guideline 301E		
	tanone, peroxide: egradability	:	Result: Readily Method: OECD	biodegradable. Test Guideline 301D		
-	ogen peroxide:					
Biode	egradability	:	Result: Readily	biodegradable.		
2-me	ethylpentane-2,4-diol:					
Biod	egradability	:	aerobic Inoculum: activa Result: Readily Biodegradation: Method: OECD	biodegradable.		
Bioa	ccumulative potential					
<u>Com</u>	ponents:					
	ethyl phthalate: ccumulation	:		n factor (BCF): 57 Test Guideline 305		
	tion coefficient: n- nol/water	:	log Pow: 1.54			
Parti	tanone, peroxide: tion coefficient: n- nol/water	:	log Pow: < 0.3	(25 °C)		



ersion .0	Revision Date: 10.10.2023		0S Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022	
hydro	ogen peroxide:				
	on coefficient: n- ol/water	:	log Pow: -1.57 (20 Remarks: Informa Calculation) °C) tion refers to the main component.	
Partiti	2-methylpentane-2,4-diol: Partition coefficient: n- octanol/water		log Pow: -0.14		
	l ity in soil Ita available				
Other	adverse effects				
Produ Additi matio	onal ecological infor-	:		hazard cannot be excluded in the event of ndling or disposal. fe.	
<u>Com</u> p	oonents:				
dime	thyl phthalate:				
Additional ecological infor- mation		:	No data available		
3. DISPOSAL CONSIDERATIONS					
Dispo	sal methods				
Waste	e from residues	:	The product shou courses or the so	te ponds, waterways or ditches with chemi-	
Contaminated packaging		:	Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste dispose 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.		

14. TRANSPORT INFORMATION

International Regulations



Version 2.0	Revision Date: 10.10.2023		Number: 00000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022
UN Prop Class Pac Labo IAT UN/ Prop Class Pac Labo	king group els A-DGR ID No. Der shipping name ss king group	: C (: 5 : N : 5 : U : C (: 5 : N : 5 : N : 5 : 0 : 1 : 5 : 1 : 5 : 1 : 5 : 1 : 5 : 1 : 5 : 1 : 5 : 1 : 1 : 5 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	(METHYL ETHYL .2 lot assigned by re .2 IN 3105 Organic peroxide (Methyl ethyl keto .2 lot assigned by re	type D, liquid one peroxide(s))
airc Pac		-	70	
UN	G-Code number per shipping name	: 0		XIDE TYPE D, LIQUID
Lab Em	king group	: 5 : N : 5 : F	METHYL ETHYL .2 lot assigned by re .2 -J, S-R o	KETONE PEROXIDE(S)) egulation

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

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.

15. REGULATORY INFORMATION

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

Gefahrgruppe nach TRGS 741: lb (German regulatory requirements)

The components of this product are reported in the following inventories:				
TCSI (TW)	:	On the inventory, or in compliance with the inventory		
TSCA (US)	:	All substances listed as active on the TSCA inventory		
AIIC (AU)	:	All components are listed on the inventory, regulatory obliga-		



				driving your success	
Versior 2.0	n Revision Date: 10.10.2023		DS Number: 0000000313	Date of last issue: 08.07.2022 Date of first issue: 16.02.2022	
			tions/restrictions a	apply	
D	SL (CA)	:	All components o	this product are on the Canadian DSL	
EI	NCS (JP)	:	On the inventory,	or in compliance with the inventory	
IS	HL (JP)	:	On the inventory,	or in compliance with the inventory	
KI	ECI (KR)	:	On the inventory,	or in compliance with the inventory	
PI	CCS (PH)	:	On the inventory,	or in compliance with the inventory	
IE	CSC (CN)	:	On the inventory,	or in compliance with the inventory	
TE	ECI (TH)	:	On the inventory,	or in compliance with the inventory	
16. OT	HER INFORMATION				
Re	evision Date	:	10.10.2023		
Fu	urther information				
O	ther information	:	safety and does r uct specification. These safety inst may still contain p	neet only contains information relating to not replace any product information or prod- ructions also apply to empty packaging which product residues. The label also apply to residues in the con-	
cc	ources of key data used to ompile the Safety Data neet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/	
Fu	Full text of other abbreviations				
A	CGIH	:	USA. ACGIH Thre	eshold Limit Values (TLV)	
A	CGIH / TWA CGIH / STEL CGIH / C	:	8-hour, time-weigl Short-term expos Ceiling limit		
La	AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for				

Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA



Version	Revision Date:	SDS Number:	Date of last issue: 08.07.2022
2.0	10.10.2023	60000000313	Date of first issue: 16.02.2022

- 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

AE / EN