according to the OSHA Hazard Communication Standard





Version	Revision Date:	SDS Number:	Date of last issue: 08/02/2023
3.1	06/19/2024	60000000417	Date of first issue: 11/22/2016

SECTION 1. IDENTIFICATION

Trade name	:	NOROX [®] MCP			
Manufacturer or supplier's o	deta	ills			
Company name of supplier	:	United Initiators, Inc.			
Address	:	555 Garden Street Elyria OH 44035 USA			
Telephone	:	+1-440-323-3112			
Telefax	:	+1-440-323-2659			
Emergency telephone	:	CHEMTREC US (24h): CHEMTREC WORLD (24h):	+1-800-424-9300 +1-703-527-3887		
E-mail address of person responsible for the SDS	:	cs-initiators.nafta@united-in.com			
Recommended use of the chemical and restrictions on use					
Decommonded use		Llordonor			

Recommended use : Hardener

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	:	Category 4
Organic peroxides	:	Type D
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin corrosion	:	Category 1B
Serious eye damage	:	Category 1
Carcinogenicity	:	Category 1B
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2

according to the OSHA Hazard Communication Standard



NOROX[®]MCP

Version 3.1	n Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
	nort-term (acute) aquatic azard	: Category 2	
	ong-term (chronic) aquatic azard	: Category 2	
G	HS label elements		
Ha	azard pictograms		
Si	gnal Word	: Danger	
Ha	azard Statements	H302 + H332 H314 Causes H350 May cau H361 Suspect H373 May cau repeated expo	may cause a fire. Harmful if swallowed or if inhaled. severe skin burns and eye damage. ise cancer. ed of damaging fertility or the unborn child. ise damage to organs through prolonged or
Pi	recautionary Statements	· Prevention:	
		P202 Do not h and understoo P210 Keep av No smoking. P220 Keep/St heavy metal s materials. P234 Keep or P260 Do not h P264 Wash s P270 Do not e P271 Use only P273 Avoid re	vay from heat/ sparks/ open flames/ hot surfaces. ore away from clothing/ strong acids, bases, alts and other reducing substances /combustible ly in original container. oreathe mist or vapors. kin thoroughly after handling. eat, drink or smoke when using this product. / outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protection/
		Response:	
		P301 + P312 CENTER/ doc P301 + P330 induce vomitin P303 + P361 all contaminat	 + P330 IF SWALLOWED: Call a POISON tor if you feel unwell. Rinse mouth. + P331 IF SWALLOWED: Rinse mouth. Do NOT g. + P353 IF ON SKIN (or hair): Take off immediately ed clothing. Rinse skin with water/ shower. + P310 IF INHALED: Remove person to fresh air

according to the OSHA Hazard Communication Standard





Version 3.1	Revision Date: SDS Number: 06/19/2024 60000000417		Date of last issue: 08/02/2023 Date of first issue: 11/22/2016				
		CENTER/ doc P305 + P351 - water for seven and easy to do CENTER/ doc P308 + P313 I attention. P363 Wash co P370 + P378 I	 P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON tor. F exposed or concerned: Get medical advice/ pontaminated clothing before reuse. n case of fire: Use water spray, alcohol-resistant nical or carbon dioxide to extinguish. 				
	P411 + P235 86 °F. Keep co	t from sunlight. Store at temperatures not exceeding < 30 °C/ <					
		Disposal: P501 Dispose posal plant.	P501 Dispose of contents/ container to an approved waste dis-				
Othe	r hazards						

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cumene hydroperoxide	80-15-9	>= 40 - < 45
dimethyl phthalate	131-11-3	>= 25 - < 30
2-Butanone, peroxide	1338-23-4	>= 15 - < 20
Trimethylpentanediol isobutyrate	6846-50-0	>= 7.5 - < 10
Cumene	98-82-8	>= 1 - < 5
acetophenone	98-86-2	>= 1 - < 5

according to the OSHA Hazard Communication Standard



NOROX[®]MCP

/ersion 5.1	Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
Butan	none	78-93-3	>= 1 - < 5
Hydrogen peroxide		7722-84-1	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. 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 material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.
If inhaled :	Administer oxygen if breathing is difficult or cyanosis is observed. 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 center immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.
In case of skin contact :	If symptoms persist, call a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. 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. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact :	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses.

according to the OSHA Hazard Communication Standard





Version 3.1			DS Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016	
lf sv	wallowed	:	Call a physician in Rinse mouth thor Keep respiratory Do NOT induce v	ben while rinsing. rsists, consult a specialist. mmediately. oughly with water. tract clear.	
and	Most important symptoms and effects, both acute and delayed		Harmful if swallowed or if inhaled. Causes serious eye damage. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or re exposure. Causes severe burns.		
Pro	Protection of first-aiders			ers should pay attention to self-protection nmended protective clothing	
Not	Notes to physician		Treat symptomati	ically and supportively.	

SECTION 5. FIRE-FIGHTING 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 temperatures exceeding SADT may result in a self- accelerating decomposition 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. Vapors may form explosive mixtures with air. Cool closed containers exposed to fire with water spray.
Specific extinguishing meth- ods	:	Do not use a solid water stream as it may scatter and spread fire.

according to the OSHA Hazard Communication Standard





Version 3.1	Revision Date: 06/19/2024	SDS Num 60000000	
		S0.	ve undamaged containers from fire area if it is safe to do vater spray to cool unopened containers.
Fur	ther information	circur Use a Colleo must Fire n	xtinguishing measures that are appropriate to local instances and the surrounding environment. water spray to cool fully closed containers. et contaminated fire extinguishing water separately. This not be discharged into drains. esidues and contaminated fire extinguishing water must sposed of in accordance with local regulations.
•	ecial protective equipmen fire-fighters	neces	self-contained breathing apparatus for firefighting if sary. ersonal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice and personal protective equipment recommendations. Beware of vapors accumulating to form explosive concentrations. Vapors 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 decomposition at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapors/mists with a water spray jet. To clean the floor and all objects contaminated by this material, 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 disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.





/ersion 8.1	Revision Date: 06/19/2024		05 Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016		
Techni	ical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.			
	e on protection against d explosion	:	(which might cau Keep away from Use only explosion Keep away from ignition. Keep away from	action to avoid static electricity discharge se ignition of organic vapors). heat and sources of ignition. on-proof equipment. open flames, hot surfaces and sources of combustible material. a naked flame or any incandescent material.		
Advice	e on safe handling	:	 Open drum carefully as content may be under pressure Protect from contamination. Do not swallow. Do not breathe vapors/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 originally removed. Provide sufficient air exchange and/or exhaust in work in Avoid confinement. Keep away from heat, hot surfaces, sparks, open flame other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in th application area. Wash thoroughly after handling. For personal protection see section 8. 			
Condit	ions for safe storage	:	 Store in original container. Keep containers tightly closed in a cool, well-ventilated Store in cool place. Keep in a well-ventilated place. Contamination may result in dangerous pressure increations closed containers may rupture. Observe label precautions. Store in accordance with the particular national regulation Avoid impurities (e.g. rust, dust, ash), risk of decomposite Electrical installations / working materials must comply the technological safety standards. Containers which are opened must be carefully reseale kept upright to prevent leakage. 			
Materi	als to avoid	:		combustible materials. strong acids, bases, heavy metal salts and ubstances.		
Recon peratu	nmended storage tem- re	:	< 30 °C			

according to the OSHA Hazard Communication Standard





Version 3.1	Revision Date: 06/19/2024	-	DS Number: 00000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
			< 86 °F	
	her information on stor- stability	:	Stable under reco	ommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cumene hydroperoxide	80-15-9	TWA	1 ppm	US WEEL
dimethyl phthalate	131-11-3	TWA	5 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
2-Butanone, peroxide	1338-23-4	С	0.2 ppm	ACGIH
		С	0.2 ppm 1.5 mg/m3	NIOSH REL
		С	0.7 ppm 5 mg/m3	OSHA P0
Cumene	98-82-8	TWA	5 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0
acetophenone	98-86-2	TWA	10 ppm	ACGIH
		TWA	10 ppm	US WEEL
Butanone	78-93-3	TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m3	NIOSH REL
		ST	300 ppm 885 mg/m3	NIOSH REL
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm 590 mg/m3	OSHA P0
		STEL	300 ppm 885 mg/m3	OSHA P0
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m3	NIOSH REL

according to the OSHA Hazard Communication Standard





Version	Revision Date: 06/19/2024	SDS Number:	Date of last issue: 08/02/2023
3.1		600000000417	Date of first issue: 11/22/2016

TWA	1 ppm 1.4 mg/m3	OSHA Z-1
TWA	1 ppm 1.4 mg/m3	OSHA PO

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Butanone	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI

Engineering measures

: Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.		
Filter type	:	ABEK-filter		
		Use NIOSH approved respiratory protection.		
Hand protection Material Break through time Glove thickness Material Break through time Glove thickness	: : : : : : : : : : : : : : : : : : : :	butyl-rubber 480 min 0.5 mm Nitrile rubber 240 min 0.4 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 protective glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.		
Eye protection	:	Ensure that eyewash stations and safety showers are close to the workstation location. Please follow all applicable local/national requirements when		

according to the OSHA Hazard Communication Standard





Version 3.1	Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
		Always wear eye contact w Tightly fitting Please wear	ective measures for a specific workplace. eye protection when the potential for inadvertent vith the product cannot be excluded. safety goggles suitable protective goggles. Also wear face here is a splash hazard.
Skin and body protection			riate protective clothing based on chemical ta and an assessment of the local exposure
		task being pe disposable su Wear as appr	dy garments should be used based upon the rformed (e.g., sleevelets, apron, gauntlets, uits) to avoid exposed skin surfaces. opriate: ant antistatic protective clothing.
Prote	ective measures		rotective equipment must be selected according tration and amount of the dangerous substance workplace.
Hygi	ene measures	Keep away fr When using c When using c	with skin, eyes and clothing. om food and drink. do not eat or drink. do not smoke. before breaks and immediately after handling

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	slight
Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	> 65 °C





Vers 3.1	ion	Revision Date: 06/19/2024		S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
				Method: Seta clo	sed cup
	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor	pressure	:	No data available	
	Relative	e vapor density	:	> 1	
	Density	/	:	1.0 g/cm3	
	Solubili Wat	ity(ies) ter solubility	:	soluble	
	Partitio octanol	n coefficient: n- l/water	:	No data available	
		celerating decomposi- nperature (SADT)	:	SADT-Self Accel temperature at w	erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Viscos Visc	ity cosity, dynamic	:	No data available	
	Viso	cosity, kinematic	:	not determined	
	Oxidizi	ng properties	:	The substance of Organic peroxide	r mixture is not classified as oxidizing.

Reactivity	:	Stable under recommended storage conditions. Heating may cause a fire or explosion.
Chemical stability	:	Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reac- tions	:	Vapors may form explosive mixture with air.

according to the OSHA Hazard Communication Standard





Version 3.1	Revision Date: 06/19/2024		lumber:)000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
Conc	litions to avoid	Co de He		compatible substances can cause at or below SADT. Id sparks.
Incor	npatible materials			rong acids and bases, heavy metals and lts, reducing agents
Haza produ	ardous decomposition ucts			flammable, noxious/toxic gases and vapours the case of fire and decomposition

SECTION 11. TOXICOLOGICAL INFORMATION

```
Acute toxicity
```

Harmful if swallowed or if inhaled.

Product:		
Acute oral toxicity	:	Acute toxicity estimate: 664.48 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 1.05 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 2,213 mg/kg Method: Calculation method
Components:		
Cumene hydroperoxide:		
Acute oral toxicity	:	LD50 Oral (Rat): 382 mg/kg
Acute inhalation toxicity	:	LC50: 1.370 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is toxic after short term inhalation.
Acute dermal toxicity	:	LD50: 1,200 - 1,520 mg/kg Assessment: The component/mixture is moderately toxic after single contact with skin.
dimethyl phthalate:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	(Rat): > 10.4 mg/l





Exposure time: 6 h Test atmosphere: vapor Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Rabbit): > 12,000 mg/kg Acute oral toxicity : Acute oral toxicity : Acute inhalation toxicity : Acute inhalation toxicity : Acute inhalation toxicity : Acute oral toxicity : Acute inhalation toxicity : Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac icity Acute oral toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment		Date of last issue: 08/02/2023 Date of first issue: 11/22/2016	umber: 000417	-	Revision Date: 06/19/2024	
2-Butanone, peroxide: Acute oral toxicity : Acute toxicity estimate: 500 mg/kg Method: Expert judgment Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg Method: Expert judgment Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg Method: Expert judgment Acute oral toxicity : Acute toxicity estimate: 2,500 mg/kg Method: Expert judgment Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: Expert judgment Acute oral toxicity : LD50 (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac toxicity Cumene: Acute oral toxicity : LD50 (Rat): 2,260 mg/kg		<i>v</i> apor	t atmosphere:			
Acute oral toxicity : Acute toxicity estimate: 500 mg/kg Method: Expert judgment Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment Assessment: The component/mixture is moderate short term inhalation. Remarks: Based on data from similar materials Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg Method: Expert judgment Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: Expert judgment Acute oral toxicity : LD50 (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac toxicity Curmene: : Acute oral toxicity : LD50 (Rat): 2,260 mg/kg		2,000 mg/kg	50 (Rabbit): >	:	dermal toxicity	Acute de
Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment Assessment: The component/mixture is moderate short term inhalation. Remarks: Based on data from similar materials Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg Method: Expert judgment Trimethylpentanediol isobutyrate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac icity Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no ac icity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac toxicity Cumene: : Acute oral toxicity <td></td> <td></td> <td></td> <td></td> <td>none, peroxide:</td> <td>2-Butan</td>					none, peroxide:	2-Butan
Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment Assessment: The component/mixture is moderate short term inhalation. Remarks: Based on data from similar materials Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg Method: Expert judgment Trimethylpentanediol isobutyrate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac icity Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no ac icity Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac toxicity Cumene: Acute oral toxicity Acute oral toxicity : LD50 (Rat): 2,2				:	oral toxicity	Acute or
Method: Expert judgment Trimethylpentanediol isobutyrate: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac icity Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac toxicity Cumene: : LD50 (Rat): 2,260 mg/kg	ely toxic aft	dust/mist gment component/mixture is moderately to n.	oosure time: 4 t atmosphere: hod: Expert ju sessment: The rt term inhalat	:	inhalation toxicity	Acute in
Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac icity Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no ac tion toxicity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no ac toxicity Cumene: Acute oral toxicity : LD50 (Rat): 2,260 mg/kg				:	dermal toxicity	Acute de
Method: Expert judgment Assessment: The substance or mixture has no acticity Acute inhalation toxicity : LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no action toxicity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no action toxicity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no action toxicity Cumene: Acute oral toxicity : LD50 (Rat): 2,260 mg/kg				butyra	hylpentanediol isob	Trimeth
Exposure time: 6 h Test atmosphere: vapor Method: Expert judgment Assessment: The substance or mixture has no action toxicity Remarks: No mortality observed at this dose. Acute dermal toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no action toxicity : LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgment Assessment: The substance or mixture has no actoxicity Cumene: Acute oral toxicity : LD50 (Rat): 2,260 mg/kg	cute oral to	gment	hod: Expert ju sessment: The	:	oral toxicity	Acute or
Method: Expert judgment Assessment: The substance or mixture has no actoxicity Cumene: Acute oral toxicity : LD50 (Rat): 2,260 mg/kg	cute inhala	apor gment substance or mixture has no acute i	bosure time: 6 t atmosphere: thod: Expert ju sessment: The toxicity	:	inhalation toxicity	Acute inf
Acute oral toxicity : LD50 (Rat): 2,260 mg/kg	cute derma	gment	hod: Expert ju	:	dermal toxicity	Acute de
					ne:	Cumene
				:	oral toxicity	Acute or
Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg Assessment: The substance or mixture has no ac toxicity Remarks: No mortality observed at this dose.	cute derma	substance or mixture has no acute o	sessment: The city	:	dermal toxicity	Acute de

according to the OSHA Hazard Communication Standard





	Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
acetoph	enone:		
-	al toxicity	Method: Exp Assessment single inges	ased on harmonised classification in EU regulati
Acute de	ermal toxicity	: LD50 (Rat): Method: OE	3,300 mg/kg CD Test Guideline 402
Butanor	ne:		
Acute or	al toxicity	: LD50 (Rat): Method: OE	2,193 mg/kg CD Test Guideline 423
Acute in	halation toxicity	: Remarks: N	o data available
Acute de	ermal toxicity	Method: OE	it): > 5,000 mg/kg CD Test Guideline 402 ased on available data, the classification criteria
Hydroge	en peroxide:		
Acute or	al toxicity	Method: Exp	nale and female): 431 mg/kg pert judgment :: The component/mixture is moderately toxic aft tion.
Acute in	halation toxicity	Exposure tir Test atmosp Assessment short term ir	here: dust/mist :: The component/mixture is moderately toxic aft halation. ased on harmonised classification in EU regulati
Acute de	ermal toxicity	•	it): 9,200 mg/kg o adverse effect has been observed in acute to:
	rrosion/irritation severe burns.		
Product Remarks		: Extremely c	orrosive and destructive to tissue.
<u>Compor</u>	nents:		

Cumene hydroperoxide:

according to the OSHA Hazard Communication Standard



NOROX®MCP

rsion	Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
Specie	25	: Rabbit	
Result		: Causes bur	ns.
Rema	rks	: Extremely c	orrosive and destructive to tissue.
dimet	hyl phthalate:		
Speci	es	: Rabbit	
Metho	d	: Draize Test	
Result	t	: No skin irrita	ation
2-Buta	anone, peroxide:		
Speci	es	: Rabbit	
Result		: Causes bur	ns.
Trime	thylpentanediol iso	butyrate:	
Speci		: Guinea pig	
	sure time	: 24 h	
Result		: No skin irrita	ation
Rema	rks		ailable data, the classification criteria are not me
Cume	ene:		
Speci	es	: Rabbit	
Metho		: OECD Test	Guideline 404
Result	t	: No skin irrita	ation
aceto	phenone:		
Speci	-	: Rabbit	
Metho			Guideline 404
Result	t	: No skin irrita	
Rema	rks	: May cause	skin irritation in susceptible persons.
Butan	ione:		
Speci	es	: Rabbit	
•	sment		xposure may cause skin dryness or cracking.
Metho			Guideline 404
Result	t	: No skin irrita	
Hydro	gen peroxide:		
Result		: Corrosive a	ter 3 minutes or less of exposure
Serio	us eye damage/eye	irritation	
	es serious eye damagereye		
<u>Produ</u>	<u>ıct:</u>		
	rks	: May cause i	rreversible eye damage.

according to the OSHA Hazard Communication Standard





Version Revision Date:	SDS Number:	Date of last issue: 08/02/2023
3.1 06/19/2024	60000000417	Date of first issue: 11/22/2016

Components:

-	
Cumene hydroperoxide:	
Species	: Rabbit
-	: Corrosive
Roodin	
Remarks	: May cause irreversible eye damage.
	, , , ,
dimathyl phthalata	
dimethyl phthalate:	
Species	: Rabbit
Result	No eye irritation
Method	: OECD Test Guideline 405
2-Butanone, peroxide:	
Result	: Irreversible effects on the eye
Trimethylpentanediol isobuty	rate:
	: Rabbit
Result	No eye irritation
Exposure time	: 24 h
	. 2711
Cumene:	
Species	: Rabbit
Result	No eye irritation
Method	: OECD Test Guideline 405
acetophenone:	
Species	: Rabbit
Result	: Eye irritation
Method	: No information available.
Remarks	: Based on harmonised classification in EU regulation
	1272/2008, Annex VI
Remarks	May agua irrayaraible, aya damaga
Remarks	: May cause irreversible eye damage.
Butanone:	
Species	: Rabbit
Result	: Eye irritation
Method	: OECD Test Guideline 405
Hydrogen peroxide:	
Result	: Irreversible effects on the eye
Remarks	: Hydrogen peroxide (H2O2), 35%





Vers 3.1	sion	Revision Date: 06/19/2024		9S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016	
	Respira	atory or skin sensitiz	atio	n		
	Skin sensitization Not classified due to lack of data.					
	Respiratory sensitization					
	Not classified due to lack of data.					
	Components:					
	Cumer	ne hydroperoxide:				
	Result		:	Does not cause sl	kin sensitization.	
	dimeth	yl phthalate:				
	Species	S	:	Mouse		
	Method Result		:	OECD Test Guide Does not cause sl		
	Result		·	Does not cause sr		
	2-Buta	none, peroxide:				
	Species		:	Guinea pig		
	Method Result		:	OECD Test Guide Does not cause sl		
		mont				
	Assess	sment	•		ed., Harmful if inhaled.	
	Trimet	hylpentanediol isobu	tyra	te:		
	Species Result	S	:	Guinea pig Does not cause sl	(in consitization	
	Result		•	Does not cause si	an sensilization.	
	Cumer	ne:				
		of exposure	:	Skin contact		
	Specie: Method		•	Guinea pig OECD Test Guide	line 406	
	Result		:	Does not cause sl		
	acetop	henone:				
	Test Ty		:	Draize Test		
	Routes	of exposure	:	Skin contact		
	Species Result	5	:	Guinea pig Does not cause sl	vin consitization	
	NESUIL		·	DUES HUL CAUSE SI		
	Butanc	one:				
		of exposure	:	Skin contact		
	Specie: Method		:	Guinea pig OECD Test Guide	line 406	
	Result		:	Does not cause sl		

according to the OSHA Hazard Communication Standard





Version	Revision Date:	SDS Number:	Date of last issue: 08/02/2023
3.1	06/19/2024	60000000417	Date of first issue: 11/22/2016

Germ cell mutagenicity

Not classified due to lack of data.

Components:		
Cumene hydroperoxide:		
Genotoxicity in vitro	:	Test Type: in vitro test Test system: Salmonella typhimurium Result: positive
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Application Route: Skin contact Result: negative
dimethyl phthalate:		
Genotoxicity in vitro	:	Method: OECD Test Guideline 471 Result: negative
		Method: OECD Test Guideline 473 Result: negative
		Method: OECD Test Guideline 476 Result: positive
Genotoxicity 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-Butanone, peroxide:		
Genotoxicity in vitro	:	Method: OECD Test Guideline 473 Result: negative
		Method: OECD Test Guideline 471 Result: negative
		Method: OECD Test Guideline 476 Result: negative
Trimethylpentanediol isob	utvra	ite ·
Gonotovicity in vitro		Tost Type: In vitre mammalian cell gone mutation

Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476
		Result: negative





Version 3.1	Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
		(Ames test) Result: nega	gulation (EC) No. 440/2008, Annex, B.13/14
			CD Test Guideline 473
Cume	ene:		
	toxicity in vitro	: Method: OE Result: nega	CD Test Guideline 473 tive
		Method: OE Result: nega	CD Test Guideline 471 tive
		Method: OE Result: nega	CD Test Guideline 476 tive
		Method: OE Result: nega	CD Test Guideline 482 tive
		Test Type: A Result: posit	
Geno	toxicity in vivo	Exposure tin	Route: Intraperitoneal ne: 72 h CD Test Guideline 474
		Exposure tin	Route: inhalation (gas) ne: 14 w CD Test Guideline 474
acoto	ophenone:		
	toxicity in vitro	: Method: OE Result: nega	CD Test Guideline 473 tive
		Method: OE Result: nega	CD Test Guideline 476 tive
		Method: OE Result: nega	CD Test Guideline 471 tive
Geno	toxicity in vivo		use Route: Intraperitoneal CD Test Guideline 474





Version 3.1	Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
		Result: nega	tive
	none: toxicity in vitro	: Method: OE Result: nega	CD Test Guideline 471 tive
		Method: OE Result: nega	CD Test Guideline 476 tive
		Method: OE Result: nega	CD Test Guideline 473 tive
Geno	toxicity in vivo		Route: Intraperitoneal CD Test Guideline 474
Hydro	ogen peroxide:		
Geno	toxicity in vitro	Result: nega positive	acterial reverse mutation assay (AMES) tive formation taken from reference works and the
		Method: OE Result: posit	Chromosome aberration test in vitro CD Test Guideline 473 ive ormation taken from reference works and the
Geno	toxicity in vivo	cytogenetic a Species: Mo Method: OE0 Result: nega	use (male and female) CD Test Guideline 474
	cell mutagenicity - ssment	: Based on av	ailable data, the classification criteria are not met.
	inogenicity cause cancer.		
<u>Com</u>	ponents:		
Cum Rema	ene hydroperoxide: arks	: This informat	ion is not available.





Vers 3.1	ion	Revisio 06/19/2	sion Date: SDS Number: 0/2024 60000000417			Date of last issue: 08/02/2023 Date of first issue: 11/22/2016		
	dimet	hyl phth	alate:					
	Species Application Route Method Result Remarks		:	 Rat Skin contact OECD Test Guideline 451 negative Based on data from similar materials 				
	2 Buta	nono n	orovido					
	Remar		eroxide:	:	This information	is not available.		
	Cume	ne:						
	Specie Applica Result	es ation Rol	ute	::	Rat, male and fe inhalation (vapor carcinogenic effe)		
	Specie Applica Result	es ation Roi	ute	:	Mouse, male and inhalation (vapor carcinogenic effe)		
	Carcino ment	ogenicity	- Assess-	:	Sufficient eviden	ce of carcinogenic	city in animal experiments	
	-	gen per ogenicity	oxide: 7 - Assess-	:	Carcinogenicity	classification not p	possible from current data.	
	IARC		Group 2B: Po Cumene	ossil	oly carcinogenic to	humans	98-82-8	
	OSHA				this product preserved regulated carcino		er than or equal to 0.1% is	
	NTP		Reasonably a Cumene	antic	ipated to be a hur	nan carcinogen	98-82-8	
	•		toxicity lamaging fertilit	ty oi	r the unborn child.			
	<u>Comp</u>	onents:						
		ne hydro on fertil	operoxide: ity	:	Remarks: No da	ta available		
	Effects	on fetal	development	:	Remarks: No da	ta available		
	dimet	hyl phth	alate:					
		on fertil		:	Species: Rat Application Rout	e: oral (gavage)		





Versior 3.1	n Revision Date: 06/19/2024		0S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
			Method: OECI Result: negativ	D Test Guideline 440 Æ
Ef	fects on fetal development	:	Developmental	oute: Ingestion ity Maternal: NOAEL: 840 mg/kg body weight Toxicity: NOAEL: 3,570 mg/kg body weight D Test Guideline 414
2-	Butanone, peroxide:			
	fects on fertility	:	General Toxic	oute: oral (gavage) ity Parent: NOAEL: 50 mg/kg body weight D Test Guideline 421 æ
Tr	imethylpentanediol isobu	tvra	te:	
	fects on fetal development	:	Test Type: Or Species: Rat Application Ro	D Test Guideline 414
	eproductive toxicity - As- ssment	:	evidence of a	damaging fertility or the unborn child., Some lverse effects on sexual function and fertility, elopment, based on animal experiments.
Cı	imene:			
	fects on fetal development	:	General Toxic Developmental	it oute: inhalation (vapor) ity Maternal: LOAEL: 500 Toxicity: NOAEL: 2,300 D Test Guideline 414
ac	etophenone:			
	fects on fertility	:	General Toxic	ity Parent: NOAEL: 225 mg/kg body weight ity F1: NOAEL: 225 mg/kg body weight D Test Guideline 422
			General Toxic	oute: Ingestion ity Parent: LOAEL: 750 mg/kg body weight ity F1: LOAEL: 750 mg/kg body weight D Test Guideline 422
Ef	fects on fetal development	:	Species: Mou	Se

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Vers 3.1	sion	Revision Date: 06/19/2024	-	9S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
					Maternal: NOAEL: 125 mg/kg body weight sity.: NOAEL: 125 mg/kg body weight
	Butano	no.			
		on fertility	:	General Toxicity F General Toxicity F Method: OECD Te	: oral (drinking water) Parent: NOAEL: 10,000 mg/l F1: NOAEL: 10,000 mg/l est Guideline 416 on data from similar materials
				General Toxicity F Method: OECD Te	: oral (drinking water) Parent: LOAEL: 20,000 mg/l est Guideline 416 on data from similar materials
	Effects	on fetal development	:	weight	Maternal: NOAEC: ca. 1,002 mg/kg body DAEC Parent: ca. 1,002 mg/kg body weight
	Hydrog	en peroxide:			
		uctive toxicity - As-	:	No data available	
		single exposure ssified due to lack of da onents:	ata.		
	Cumen				
	Assess		:	May cause respira	atory irritation.
	Butano	one:			
	Assess		:	May cause drowsi	ness or dizziness.
	Hydrog	jen peroxide:			
	Target Assess	Organs	:	Respiratory Tract May cause respira	atory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.





ersion Revision Date: .1 06/19/2024		SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
Comr	ononts:		
-	oonents:		
	ene hydroperoxide: ssment	: May cause dar exposure.	nage to organs through prolonged or repeated
Hydro	ogen peroxide:		
Rema	rks	: No data availat	ble
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Cume	ene hydroperoxide:		
Speci		: Rat	
NOAE	ation Route	: 31 mg/m ³ : inhalation (gas)
	sure time	: 90 d	1
dime	thyl phthalate:		
Speci		: Rat	
NOAE		: 770 mg/kg	
	ation Route	: Oral : 16 w	
Metho		: OECD Test Gu	uideline 408
2-But	anone, peroxide:		
Speci	es	: Rat	
NOAE		: 200 mg/kg	
	ation Route sure time	: oral (gavage) : 28 d	
Metho		: OECD Test Gu	uideline 407
	ated dose toxicity - ssment	: Harmful if swal	lowed., Harmful if inhaled.
Cume	ene:		
Speci		: Rat	
NOAE		: 154 mg/kg : Oral	
Metho	ation Route	: OECD Test Gu	uideline 413
aceto	phenone:		
Speci	-	: Rat	
NOAE	EL	: 225 mg/kg	
LOAE		: 750 mg/kg	
Applic	ation Route	: Ingestion	

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Version 3.1	Revision Date: 06/19/2024		9S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016	
Metho	bd	:	OECD Test Guide	eline 422	
Spec NOAI Applic Expo	Hydrogen peroxide: Species NOAEL Application Route Exposure time Remarks		Mouse, female 37 mg/kg oral (drinking wat 90 d Hydrogen peroxic	,	
NOAI Applio Expo	Species NOAEL Application Route Exposure time Remarks		Mouse, males 26 mg/kg oral (drinking water) 90 Hydrogen peroxide (H2O2), 35%		

Aspiration toxicity

Not classified due to lack of data.

Components:

dimethyl phthalate:

No aspiration toxicity classification

Trimethylpentanediol isobutyrate:

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

Cumene:

May be fatal if swallowed and enters airways.

Hydrogen peroxide:

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

Further information

Product:

Remarks : No	o data available
--------------	------------------

Components:

dimethyl phthalate:		
Remarks	:	No data available

Trimethylpentanediol isobutyrate:

Remarks	:	No data available
---------	---	-------------------

acetophenone:

according to the OSHA Hazard Communication Standard

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rsion	Revision Date: 06/19/2024		0S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
Rema	rks	:	No data available	
CTION	12. ECOLOGICAL INFO	DRN	IATION	
Ecoto	xicity			
<u>Comp</u>	onents:			
	ne hydroperoxide:			
Toxicit	ty to fish	:	LC50 (Oncorhyncl Exposure time: 96 Test Type: semi-s Method: OECD Te	tatic test
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: Immob Method: OECD Te	ilization
Toxicit plants	ty to algae/aquatic	:	EC50 (Desmodes) Exposure time: 72 Method: OECD Te	
			NOEC (Desmodes Exposure time: 72 Method: OECD Te	
Toxicit	ty to microorganisms	:	NOEC (Pseudomo End point: Growth Exposure time: 16	
dimet	hyl phthalate:			
Toxicit	ty to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 39 mg/l h
	ty to daphnia and other c invertebrates	:	LC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 52 mg/l h
Toxicit plants	ty to algae/aquatic	:	EC50 (Desmodes) Exposure time: 72	mus subspicatus (green algae)): 260 mg/ : h
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Oncorhynd Exposure time: 10 Method: OECD Te	
			LOEC (Oncorhynd Exposure time: 10 Method: OECD Te	





Vers 3.1	ion	Revision Date: 06/19/2024		S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
		invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 9.6 mg/l 21 d
				LOEC (Daphnia Exposure time: 2	magna (Water flea)): 23 mg/l 21 d
	Toxicity	to microorganisms	:	EC50: 4,100 mg Exposure time: 0 Method: OECD	
	2-Butar	none, peroxide:			
	Toxicity	to fish	:	Exposure time: 9	eticulata (guppy)): 44.2 mg/l 96 h Test Guideline 203
				Exposure time: 9	reticulata (guppy)): 18 mg/l 96 h Test Guideline 203
		to daphnia and other invertebrates	:	Exposure time: 4	magna (Water flea)): 39 mg/l 48 h Test Guideline 202
					magna (Water flea)): 26.7 mg/l Test Guideline 202
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 5.6 72 h Test Guideline 201
				mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 2.1 72 h Test Guideline 201
	Toxicity	to microorganisms	:	EC50 (Bacteria): Exposure time: 0 Method: OECD	
	Trimeth	nylpentanediol isobut	tyra	te:	
	Toxicity	to fish	:	NOEC (Fish): >= Exposure time: 9 Method: OECD	
		to daphnia and other invertebrates	:	EC50 (Daphnia): Exposure time: 4	





Versio 3.1	n	Revision Date: 06/19/2024		0S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
				NOEC (Daphnia): Exposure time: 21	
	oxicity lants	to algae/aquatic	:	EC50 (Chlorella p Exposure time: 72 Method: OECD Te	
a	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	LOEC (Daphnia n Exposure time: 21	
		icology Assessment quatic toxicity	:	This product has r	no known ecotoxicological effects.
С	hronic	aquatic toxicity	:	Harmful to aquatic	life with long lasting effects.
-	Cumen Oxicity	e: to fish	:	LC50 (Oncorhyncl Exposure time: 96	hus mykiss (rainbow trout)): 4.8 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	EC50 (Desmodes) Exposure time: 72 Method: OECD Te	
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Ţ	oxicity	to microorganisms	:	EC50: > 2,000 mg Exposure time: 3 Method: OECD Te	h
		icology Assessment aquatic toxicity	:	Toxic to aquatic life	e with long lasting effects.
а	cetopl	henone:			
	-	to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 528 mg/l 8 h
	oxicity lants	to algae/aquatic	:	EC50 (Pseudokirc mg/l	hneriella subcapitata (green algae)): 86.4





Version 3.1	Revision Date: 06/19/2024		0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
			NOEC (Pseudoki mg/l Exposure time: 7	ēst Guideline 201 rchneriella subcapitata (green algae)): 24.8
Bu	anone:			
Тох	icity to fish	:	Exposure time: 9	es promelas (fathead minnow)): 2,993 mg/l 6 h Test Guideline 203
	icity to daphnia and other attic invertebrates	:	Exposure time: 4	nagna (Water flea)): 308 mg/l 8 h ēst Guideline 202
Tox pla	ricity to algae/aquatic nts	:	mg/l Exposure time: 9	chneriella subcapitata (green algae)): 2,029 6 h ēst Guideline 201
То>	icity to microorganisms	:	NOEC (Pseudom Exposure time: 1 Method: DIN 38 4	
Hy	drogen peroxide:			
-	cicity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 16.4 mg/l 6 h
	icity to daphnia and other atic invertebrates	:	LC50 (Daphnia p Exposure time: 4	ulex (Water flea)): 2.4 mg/l 8 h
Tox pla	icity to algae/aquatic nts	:	EC50 (Skeletone Exposure time: 7	ma costatum (marine diatom)): 1.38 mg/l 2 h
			NOEC (Skeletone Exposure time: 7	ema costatum (marine diatom)): 0.63 mg/l 2 h
aqu	cicity to daphnia and other natic invertebrates (Chron- paticity)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.63 mg/l 1 d
То>	icity to microorganisms	:	Exposure time: 3	sludge): > 1,000 mg/l h ēst Guideline 209





Version 3.1	Revision Date: 06/19/2024	SDS Number: 600000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
_			
	sistence and degradab	ility	
<u>Cor</u>	<u>nponents:</u>		
	nene hydroperoxide: degradability		eadily biodegradable. CD Test Guideline 301B
dim	nethyl phthalate:		
	degradability		lily biodegradable. CD Test Guideline 301E
2-B	utanone, peroxide:		
	degradability		lily biodegradable. CD Test Guideline 301D
Trir	nethylpentanediol isob	utyrate:	
	degradability	: Result: rapid Exposure tin	ly biodegradable ne: 28 d CD Test Guideline 301B
Cur	mene:		
	degradability	: Result: Read	lily biodegradable.
ace	etophenone:		
	degradability		lily biodegradable. CD Test Guideline 301C
But	anone:		
Bio	degradability		lily biodegradable. CD Test Guideline 301D
Нус	drogen peroxide:		
Bio	degradability	: Result: Read	lily biodegradable.
Bio	accumulative potential		
<u>Cor</u>	nponents:		
Par	mene hydroperoxide: tition coefficient: n- anol/water	: log Pow: 1.6	
dim	nethyl phthalate:		
Bio	accumulation	: Bioconcentra	ation factor (BCF): 57





rsion	Revision Date: 06/19/2024	-	S Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016	
			Method: OEC	7 Test Guideline 305	
	ion coefficient: n- ol/water	:	log Pow: 1.54		
2-But	anone, peroxide:				
	ion coefficient: n- ol/water	:	log Pow: < 0.3	(25 °C / 25 °C)	
Trime	ethylpentanediol isobu	utyra	te:		
Bioac	cumulation	:	Species: Fish Bioconcentrati	on factor (BCF): 1.95	
	ion coefficient: n- ol/water	:	log Pow: 4.91	(25 °C / 25 °C)	
Cume	ene:				
Bioac	cumulation	:	Bioconcentration Remarks: Calo	on factor (BCF): 94.69 ulation	
	ion coefficient: n- ol/water	:	log Pow: 3.55	(23 °C / 23 °C)	
aceto	ophenone:				
	cumulation	:	Bioconcentrati	on factor (BCF): 0.48	
	ion coefficient: n- ol/water	:	log Pow: 1.63		
Butar	none:				
	ion coefficient: n- ol/water	:	log Pow: 0.3 (4	0 °C / 40 °C)	
Hydro	ogen peroxide:				
Partit	ion coefficient: n- ol/water	:		(20 $^{\circ}$ C / 20 $^{\circ}$ C) mation refers to the main ingredient.	
Mobi	lity in soil				
No da	ata available				
Othe	r adverse effects				
Prod					
Ozon	e-Depletion Potential	:	-	CFR Protection of Environment; Part 82 l ospheric Ozone - CAA Section 602 Class	

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Version 3.1	Revision Date: 06/19/2024		S Number: 000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
Additi matio	onal ecological infor- n	Remarks: This product neither contains, nor was man tured with a Class I or Class II ODS as defined by the Clean Air Act Section 602 (40 CFR 82, Subpt. A, App : An environmental hazard cannot be excluded in the e unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.		I or Class II ODS as defined by the U.S. tion 602 (40 CFR 82, Subpt. A, App.A + B). hazard cannot be excluded in the event of indling or disposal.
<u>Comp</u>	oonents:			
dime	thyl phthalate:			
	Additional ecological infor- mation		No data available	
SECTION	13. DISPOSAL CONS	DERA	TIONS	
Dispo	sal methods			

Waste from residues	:	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 chemical or used container.
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

International Regulations

: UN 3105
: ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S), CUMYL HYDROPEROXIDE)
: 5.2
: Not assigned by regulation
: 5.2
: yes
: UN 3105
: Organic peroxide type D, liquid

according to the OSHA Hazard Communication Standard



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Version 3.1	Revision Date: 06/19/2024		DS Number: 0000000417	Date of last issue: 08/02/2023 Date of first issue: 11/22/2016
Labels Packin aircraft)	g instruction (passen-	: :	5.2 Not assigned by r	one peroxide(s), Cumyl hydroperoxide) egulation s, Keep Away From Heat
Class Packin Labels EmS C	nber shipping name g group			

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49	CFR
----	-----

UN/ID/NA number Proper shipping name	:	UN 3105 Organic peroxide type D, liquid (Methyl ethyl ketone peroxide, <=17%, Cumyl hydroperoxide, <=44%)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	ORGANIC PEROXIDE
ERG Code	:	145
Marine pollutant	:	yes

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.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components CAS-No.		Component RQ	Calculated product RQ
		(lbs)	(lbs)
Cumene hydroperoxide	80-15-9	10	23
Butanone	78-93-3	5000	5000 (D035)
Butanone	78-93-3	100	100 (F005)

according to the OSHA Hazard Communication Standard



NOROX[®]MCP

Version	Revision Date:	SDS Number:	Date of last issue: 08/02/2023
3.1	06/19/2024	60000000417	Date of first issue: 11/22/2016

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

Components	CAS-No.	Component TPQ (lbs)	
Hydrogen peroxide	7722-84-1	1000	
SARA 311/312 Hazards	Flammable (gases, aerosols, liquids, or solids) Organic peroxides Acute toxicity (any route of exposure) Carcinogenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation		
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:		
	Cumene hydrop- eroxide	80-15-9	
	dimethyl phthalate	131-11-3	
	Cumene	98-82-8	
	acetophenone	98-86-2	

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR

61):

dimethyl phthalate	131-11-3
Cumene	98-82-8
acetophenone	98-86-2

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Cumene hydroperoxide	80-15-9
Cumene	98-82-8
acetophenone	98-86-2
Butanone	78-93-3

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

according to the OSHA Hazard Communication Standard





Version	Revision Date:	SDS Number:	Date of last issue: 08/02/2023
3.1	06/19/2024	60000000417	Date of first issue: 11/22/2016

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

dimethyl phthalate 131-11-3 This product contains the following priority pollutants related to the U.S. Clean Water Act: dimethyl phthalate 131-11-3

California Prop. 65

WARNING: This product can expose you to chemicals including Cumene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

International Regulations

The ingredients 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 obligations/restrictions apply
DSL (CA)	:	All components of this product are on the Canadian DSL
ENCS (JP)	:	On the inventory, or in compliance with the inventory
ISHL (JP)	:	On the inventory, or in compliance with the inventory
KECI (KR)	:	On the inventory, or in compliance with the inventory
PICCS (PH)	:	On the inventory, or in compliance with the inventory
IECSC (CN)	:	On the inventory, or in compliance with the inventory
TECI (TH)	:	On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Revision Date:

according to the OSHA Hazard Communication Standard

SDS Number:



Date of last issue: 08/02/2023

NOROX®MCP

Version

3.1	06/19/2024	600000000417	Date of first issue: 11/22/2016
	These safety instructions al The hazards on the label al		packaging which may still contain product residues. is in the container.
	Sources of key data used to compile the Material Safety Data Sheet	eChem Po	hnical data, data from raw material SDSs, OECD tal search results and European Chemicals Agen- cha.europa.eu/
	Revision Date	: 06/19/2024	
	Full text of other abbrevia	tions	
	ACGIH	: USA. ACG	H Threshold Limit Values (TLV)
	ACGIH BEI		ological Exposure Indices (BEI)
	NIOSH REL	: USA. NIOS	H Recommended Exposure Limits
	OSHA PO	: USA. Table values)	Z-1-A Limits for Air Contaminants (1989 vacated
	OSHA Z-1		pational Exposure Limits (OSHA) - Table Z-1 Lim- ontaminants
	US WEEL	: USA. Work	place Environmental Exposure Levels (WEEL)
	ACGIH / TWA	: 8-hour, tim	e-weighted average
	ACGIH / STEL		exposure limit
	ACGIH / C	: Ceiling limi	
	NIOSH REL / TWA		ted average concentration for up to a 10-hour ring a 40-hour workweek
	NIOSH REL / ST		minute TWA exposure that should not be exceeded during a workday
	NIOSH REL / C		e not be exceeded at any time.
	OSHA P0/TWA		weighted average
	OSHA P0/STEL		exposure limit
	OSHA P0/C	: Ceiling limi	
	OSHA Z-1 / TWA	: 8-hour time	weighted average
	US WEEL / TWA	: 8-hr TWA	

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Oth-

according to the OSHA Hazard Communication Standard



NOROX®MCP

Version	Revision Date:	SDS Number:	Date of last issue: 08/02/2023
3.1	06/19/2024	60000000417	Date of first issue: 11/22/2016

erwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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.

US / Z8