

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

SECTION 1. IDENTIFICATION

Trade name : NOROX[®]MCP-21

Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : United Initiators, Inc.

Address : 555 Garden Street
Elyria OH 44035 USA

United Initiators Canada Ltd.
2147 PG Pulp Mill Road
Prince George, BC-V2N 2S6 CANADA

Telephone : +1-440-323-3112

Telefax : +1-440-323-2659

Emergency telephone : CHEMTREC US (24h): +1-800-424-9300
CHEMTREC WORLD (24h): +1-703-527-3887
CANUTEC (24h): 1-613-996-6666

For Transportation Incidents : TERRAPURE EMERGENCY RESPONSE SERVICES (24h):
1-800-567-7455

E-mail address of person responsible for the SDS : cs-initiators.nafta@united-in.com

Recommended use of the chemical and restrictions on use

Recommended use : Hardener

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 4

Organic peroxides : Type D

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

Skin corrosion : Category 1
Serious eye damage : Category 1
Carcinogenicity : Category 1B
Reproductive toxicity : Category 2
Specific target organ toxicity - repeated exposure : Category 2
Short-term (acute) aquatic hazard : Category 2
Long-term (chronic) aquatic hazard : Category 2

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H227 Combustible liquid.
H242 Heating may cause a fire.
H302 + H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P240 Ground and bond container and receiving equipment.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version
3.1

Revision Date:
06/04/2024

SDS Number:
600000000084

Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

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

P391 Collect spillage.

Storage:

P403 Store in a well-ventilated place.

P405 Store locked up.

P410 Protect from sunlight.

P411 Store at temperatures not exceeding < 100 °F/ < 38 °C.

P420 Store separately.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Organic Peroxide
Liquid mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Cumene hydroperoxide	Cumene hydroperoxide	80-15-9	>= 30 - < 35 *
dimethyl phthalate	dimethyl phtha-	131-11-3	>= 25 - < 30 *

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

	late		
2-Butanone, peroxide	2-Butanone, peroxide	1338-23-4	$\geq 20 - < 25$ *
Trimethylpentanediol isobutyrate	Trimethylpentanediol isobutyrate	6846-50-0	$\geq 10 - < 15$ *
Butanone	Butanone	78-93-3	$\geq 1 - < 5$ *
Cumene	Cumene	98-82-8	$\geq 1 - < 5$ *
acetophenone	acetophenone	98-86-2	$\geq 1 - < 5$ *
Benzenemethanol, alpha,alpha-dimethyl-	Benzenemethanol, alpha,alpha-dimethyl-	617-94-7	$\geq 1 - < 5$ *
Hydrogen peroxide	Hydrogen peroxide	7722-84-1	$\geq 1 - < 5$ *

* Actual concentration or concentration range 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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1	Revision Date: 06/04/2024	SDS Number: 600000000084	Date of last issue: 07/25/2023 Date of first issue: 12/16/2016
----------------	------------------------------	-----------------------------	---

- 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.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.
Rinse mouth thoroughly with water.
Keep respiratory tract clear.
Do NOT induce vomiting.
If symptoms persist, call a physician.
- 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 repeated exposure.
Causes severe burns.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : Treat symptomatically 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.
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SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1	Revision Date: 06/04/2024	SDS Number: 600000000084	Date of last issue: 07/25/2023 Date of first issue: 12/16/2016
----------------	------------------------------	-----------------------------	---

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.
The product will float on water and can be reignited on surface water.
Cool closed containers exposed to fire with water spray.

Specific extinguishing methods : Do not use a solid water stream as it may scatter and spread fire.
Remove undamaged containers from fire area if it is safe to do so.
Use water spray to cool unopened containers.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use a water spray to cool fully closed containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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 : Contact with incompatible substances can cause

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

containment and cleaning up 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.

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
Keep away from heat and sources of ignition.
Use only explosion-proof equipment.
Keep away from open flames, hot surfaces and sources of ignition.
Keep away from combustible material.
Do not spray on a naked flame or any incandescent material.

Advice 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 was originally removed.
Provide sufficient air exchange and/or exhaust in work rooms.
Avoid confinement.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Smoking, eating and drinking should be prohibited in the application area.
Wash thoroughly after handling.
For personal protection see section 8.

Conditions for safe storage : Store in original container.
Keep containers tightly closed in a cool, well-ventilated place.
Store in cool place.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version
3.1

Revision Date:
06/04/2024

SDS Number:
600000000084

Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

Keep in a well-ventilated place.
Contamination may result in dangerous pressure increases - closed containers may rupture.
Observe label precautions.
Store in accordance with the particular national regulations.
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
Electrical installations / working materials must comply with the technological safety standards.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Materials to avoid : Keep away from combustible materials.
Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature : < 38 °C

Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dimethyl phthalate	131-11-3	TWA	5 mg/m ³	CA AB OEL
		TWA	5 mg/m ³	CA BC OEL
		TWAEV	5 mg/m ³	CA QC OEL
		TWA	5 mg/m ³	ACGIH
2-Butanone, peroxide	1338-23-4	(c)	0.2 ppm 1.4 mg/m ³	CA AB OEL
		C	0.2 ppm	CA BC OEL
		C	0.2 ppm 1.5 mg/m ³	CA QC OEL
		C	0.2 ppm	ACGIH
Butanone	78-93-3	TWA	200 ppm 590 mg/m ³	CA AB OEL
		STEL	300 ppm 885 mg/m ³	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	100 ppm	CA BC OEL
		TWAEV	50 ppm 150 mg/m ³	CA QC OEL

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
 Date of first issue: 12/16/2016

		STEV	100 ppm 300 mg/m3	CA QC OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
Cumene	98-82-8	TWA	50 ppm 246 mg/m3	CA AB OEL
		TWA	25 ppm	CA BC OEL
		STEL	75 ppm	CA BC OEL
		TWAEV	50 ppm 246 mg/m3	CA QC OEL
		TWA	5 ppm	ACGIH
acetophenone	98-86-2	TWA	10 ppm 49 mg/m3	CA AB OEL
		TWA	10 ppm	CA BC OEL
		TWAEV	10 ppm 49 mg/m3	CA QC OEL
		TWA	10 ppm	ACGIH
Hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m3	CA AB OEL
		TWA	1 ppm	CA BC OEL
		TWAEV	1 ppm	CA QC OEL
		TWA	1 ppm	ACGIH

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 : butyl-rubber
 Break through time : <= 480 min
 Glove thickness : 0.5 mm

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Material : Nitrile rubber
Break through time : < 30 min
Glove thickness : 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 selecting protective measures for a specific workplace.
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Wear as appropriate:
Flame retardant antistatic protective clothing.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures : Avoid contact with skin, eyes and clothing.
Keep away from food and drink.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1	Revision Date: 06/04/2024	SDS Number: 600000000084	Date of last issue: 07/25/2023 Date of first issue: 12/16/2016
----------------	------------------------------	-----------------------------	---

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	slight
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	65 °C Method: Seta closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	> 1
Density	:	1.0 g/cm ³
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	60 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : not determined
Oxidizing properties : The substance or mixture is not classified as oxidizing.
Organic peroxide

SECTION 10. STABILITY AND REACTIVITY

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 reactions : Vapors may form explosive mixture with air.

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

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

Hazardous decomposition products : Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in 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: 740.15 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 1.32 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1	Revision Date: 06/04/2024	SDS Number: 600000000084	Date of last issue: 07/25/2023 Date of first issue: 12/16/2016
----------------	------------------------------	-----------------------------	---

Acute dermal toxicity : Acute toxicity estimate: > 2,000 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

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
Assessment: The component/mixture is moderately toxic after 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 acute oral toxicity

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

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 acute inhalation 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 acute dermal toxicity

Butanone:

Acute oral toxicity : LD50 (Rat): 2,193 mg/kg
Method: OECD Test Guideline 423

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on available data, the classification criteria are not met.

Cumene:

Acute oral toxicity : LD50 (Rat): 2,260 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: No mortality observed at this dose.

acetophenone:

Acute oral toxicity : Acute toxicity estimate: 500.0 mg/kg
Method: Expert judgment
Assessment: The component/mixture is moderately toxic after single ingestion.
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : LD50 (Rat): 3,300 mg/kg
Method: OECD Test Guideline 402

Benzenemethanol, alpha,alpha-dimethyl-:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Assessment: The component/mixture is moderately toxic after single ingestion.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Remarks: Expert judgment

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50: Method: Expert judgment
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on available data, the classification criteria are not met.

Hydrogen peroxide:

Acute oral toxicity : LD50 (Rat, male and female): 431 mg/kg
Method: Expert judgment
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The component/mixture is moderately toxic after short term inhalation.
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : LD50 (Rabbit): 9,200 mg/kg
Remarks: No adverse effect has been observed in acute toxicity tests.

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

Cumene hydroperoxide:

Species : Rabbit
Result : Causes burns.

Remarks : Extremely corrosive and destructive to tissue.

dimethyl phthalate:

Species : Rabbit
Method : Draize Test
Result : No skin irritation

2-Butanone, peroxide:

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Species : Rabbit
Result : Causes burns.

Trimethylpentanediol isobutyrate:

Species : Guinea pig
Exposure time : 24 h
Result : No skin irritation
Remarks : Based on available data, the classification criteria are not met.

Butanone:

Species : Rabbit
Assessment : Repeated exposure may cause skin dryness or cracking.
Method : OECD Test Guideline 404
Result : No skin irritation

Cumene:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

acetophenone:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Remarks : May cause skin irritation in susceptible persons.

Benzenemethanol, alpha,alpha-dimethyl-:

Species : Rabbit
Result : Severe skin irritation

Hydrogen peroxide:

Result : Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

Cumene hydroperoxide:

Species : Rabbit
Result : Corrosive

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

Remarks : May cause irreversible eye damage.

dimethyl phthalate:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

2-Butanone, peroxide:

Result : Irreversible effects on the eye

Trimethylpentanediol isobutyrate:

Species : Rabbit
Result : No eye irritation
Exposure time : 24 h

Butanone:

Species : Rabbit
Result : Eye irritation
Method : OECD Test Guideline 405

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 cause irreversible eye damage.

Benzenemethanol, alpha,alpha-dimethyl-:

Result : Irritating to eyes.

Hydrogen peroxide:

Result : Irreversible effects on the eye
Remarks : Hydrogen peroxide (H₂O₂), 35%

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Respiratory sensitization

Not classified due to lack of data.

Components:

Cumene hydroperoxide:

Result : Does not cause skin sensitization.

dimethyl phthalate:

Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitization.

2-Butanone, peroxide:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

Assessment : Harmful if swallowed., Harmful if inhaled.

Trimethylpentanediol isobutyrate:

Species : Guinea pig
Result : Does not cause skin sensitization.

Butanone:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

Cumene:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

acetophenone:

Test Type : Draize Test
Routes of exposure : Skin contact
Species : Guinea pig
Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified due to lack of data.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

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 isobutyrate:

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

Test Type: Ames test
Method: Regulation (EC) No. 440/2008, Annex, B.13/14

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1	Revision Date: 06/04/2024	SDS Number: 600000000084	Date of last issue: 07/25/2023 Date of first issue: 12/16/2016
----------------	------------------------------	-----------------------------	---

(Ames test)
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Butanone:

Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative

Method: OECD Test Guideline 476
Result: negative

Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Species: Mouse
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative

Cumene:

Genotoxicity in vitro : Method: OECD Test Guideline 473
Result: negative

Method: OECD Test Guideline 471
Result: negative

Method: OECD Test Guideline 476
Result: negative

Method: OECD Test Guideline 482
Result: negative

Test Type: Ames test
Result: positive

Genotoxicity in vivo : Species: Rat
Application Route: Intraperitoneal
Exposure time: 72 h
Method: OECD Test Guideline 474
Result: Equivocal

Species: Mouse
Application Route: inhalation (gas)
Exposure time: 14 w
Method: OECD Test Guideline 474
Result: negative

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

acetophenone:

Genotoxicity in vitro : Method: OECD Test Guideline 473
Result: negative

Method: OECD Test Guideline 476
Result: negative

Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Species: Mouse
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative

Hydrogen peroxide:

Genotoxicity 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 literature.

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse (male and female)
Method: OECD Test Guideline 474
Result: negative
Remarks: Hydrogen peroxide (H₂O₂), 35%

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

Carcinogenicity

May cause cancer.

Components:

Cumene hydroperoxide:

Remarks : This information is not available.

dimethyl phthalate:

Species : Rat
Application Route : Skin contact
Method : OECD Test Guideline 451

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

Result : negative
Remarks : Based on data from similar materials

2-Butanone, peroxide:

Remarks : This information is not available.

Cumene:

Species : Rat, male and female
Application Route : inhalation (vapor)
Result : carcinogenic effects

Species : Mouse, male and female
Application Route : inhalation (vapor)
Result : carcinogenic effects

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

Hydrogen peroxide:

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

Cumene hydroperoxide:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

dimethyl phthalate:

Effects on fertility : Species: Rat
Application Route: oral (gavage)
Method: OECD Test Guideline 440
Result: negative

Effects on fetal development : Species: Rat
Application Route: Ingestion
General Toxicity Maternal: NOAEL: 840 mg/kg body weight
Developmental Toxicity: NOAEL: 3,570 mg/kg body weight
Method: OECD Test Guideline 414

2-Butanone, peroxide:

Effects on fertility : Species: Rat
Application Route: oral (gavage)
General Toxicity Parent: NOAEL: 50 mg/kg body weight

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Method: OECD Test Guideline 421
Result: negative

Trimethylpentanediol isobutyrate:

Effects on fetal development : Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Reproductive toxicity - Assessment : Suspected of damaging fertility or the unborn child., Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

Butanone:

Effects on fertility : Species: Rat
Application Route: oral (drinking water)
General Toxicity Parent: NOAEL: 10,000 mg/l
General Toxicity F1: NOAEL: 10,000 mg/l
Method: OECD Test Guideline 416
Remarks: Based on data from similar materials

Species: Rat
Application Route: oral (drinking water)
General Toxicity Parent: LOAEL: 20,000 mg/l
Method: OECD Test Guideline 416
Remarks: Based on data from similar materials

Effects on fetal development : Species: Rat
Application Route: Inhalation
General Toxicity Maternal: NOAEC: ca. 1,002 mg/kg body weight
Teratogenicity: NOAEC Parent: ca. 1,002 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative

Cumene:

Effects on fetal development : Species: Rabbit
Application Route: inhalation (vapor)
General Toxicity Maternal: LOAEL: 500
Developmental Toxicity: NOAEL: 2,300
Method: OECD Test Guideline 414

acetophenone:

Effects on fertility : Species: Rat
Application Route: Ingestion
General Toxicity Parent: NOAEL: 225 mg/kg body weight
General Toxicity F1: NOAEL: 225 mg/kg body weight
Method: OECD Test Guideline 422

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Result: negative

Species: Rat
Application Route: Ingestion
General Toxicity Parent: LOAEL: 750 mg/kg body weight
General Toxicity F1: LOAEL: 750 mg/kg body weight
Method: OECD Test Guideline 422

Effects on fetal development : Species: Mouse
Application Route: Ingestion
General Toxicity Maternal: NOAEL: 125 mg/kg body weight
Embryo-fetal toxicity.: NOAEL: 125 mg/kg body weight
Method: OECD Test Guideline 414

Hydrogen peroxide:

Reproductive toxicity - Assessment : No data available

STOT-single exposure

Not classified due to lack of data.

Components:

Butanone:

Assessment : May cause drowsiness or dizziness.

Cumene:

Assessment : May cause respiratory irritation.

Hydrogen peroxide:

Target Organs : Respiratory Tract
Assessment : May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Cumene hydroperoxide:

Assessment : May cause damage to organs through prolonged or repeated exposure.

Hydrogen peroxide:

Remarks : No data available

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

Repeated dose toxicity

Components:

Cumene hydroperoxide:

Species : Rat
NOAEC : 31 mg/m³
Application Route : inhalation (gas)
Exposure time : 90 d

dimethyl phthalate:

Species : Rat
NOAEL : 770 mg/kg
Application Route : Oral
Exposure time : 16 w
Method : OECD Test Guideline 408

2-Butanone, peroxide:

Species : Rat
NOAEL : 200 mg/kg
Application Route : oral (gavage)
Exposure time : 28 d
Method : OECD Test Guideline 407

Repeated dose toxicity - Assessment : Harmful if swallowed., Harmful if inhaled.

Cumene:

Species : Rat
NOAEL : 154 mg/kg
Application Route : Oral
Method : OECD Test Guideline 413

acetophenone:

Species : Rat
NOAEL : 225 mg/kg
LOAEL : 750 mg/kg
Application Route : Ingestion
Method : OECD Test Guideline 422

Hydrogen peroxide:

Species : Mouse, female
NOAEL : 37 mg/kg
Application Route : oral (drinking water)
Exposure time : 90 d
Remarks : Hydrogen peroxide (H₂O₂), 35%

Species : Mouse, males

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

NOAEL : 26 mg/kg
Application Route : oral (drinking water)
Exposure time : 90
Remarks : 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 data available

Components:

dimethyl phthalate:

Remarks : No data available

Trimethylpentanediol isobutyrate:

Remarks : No data available

acetophenone:

Remarks : No data available

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Cumene hydroperoxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 18.8 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 3.1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Pseudomonas putida): 50 mg/l
End point: Growth rate
Exposure time: 16 h

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 fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 11 mg/l
Exposure time: 102 d
Method: OECD Test Guideline 210

LOEC (Oncorhynchus mykiss (rainbow trout)): 24 mg/l
Exposure time: 102 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 9.6 mg/l
Exposure time: 21 d

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

- LOEC (*Daphnia magna* (Water flea)): 23 mg/l
Exposure time: 21 d
- Toxicity to microorganisms : EC50: 4,100 mg/l
Exposure time: 0.5 h
Method: OECD Test Guideline 209
- 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
- NOEC (*Daphnia magna* (Water flea)): 26.7 mg/l
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 5.6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (*Pseudokirchneriella subcapitata* (green algae)): 2.1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (Bacteria): 48 mg/l
Exposure time: 0.5 h
Method: OECD Test Guideline 209
- Trimethylpentanediol isobutyrate:**
- Toxicity to fish : NOEC (Fish): ≥ 6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia*): ≥ 1.46 mg/l
Exposure time: 48 h
- NOEC (*Daphnia*): 0.7 mg/l
Exposure time: 21 d
- Toxicity to algae/aquatic : EC50 (*Chlorella pyrenoidosa*): > 7.49 mg/l

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1	Revision Date: 06/04/2024	SDS Number: 600000000084	Date of last issue: 07/25/2023 Date of first issue: 12/16/2016
----------------	------------------------------	-----------------------------	---

plants : Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC (Daphnia magna (Water flea)): 0.7 mg/l
Exposure time: 21 d

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Butanone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,993 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 308 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,029 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Pseudomonas putida): 1,150 mg/l
Exposure time: 16 h
Method: DIN 38 412 Part 8

Cumene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.8 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.14 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 2.01 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.35 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50: > 2,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version 3.1 Revision Date: 06/04/2024 SDS Number: 600000000084 Date of last issue: 07/25/2023
Date of first issue: 12/16/2016

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

acetophenone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 162 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 528 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 86.4 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 24.8 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Benzenemethanol, alpha,alpha-dimethyl-:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Hydrogen peroxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia pulex (Water flea)): 2.4 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l
Exposure time: 72 h

NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.63 mg/l
Exposure time: 21 d

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Persistence and degradability

Components:

Cumene hydroperoxide:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301B

dimethyl phthalate:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301E

2-Butanone, peroxide:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301D

Trimethylpentanediol isobutyrate:

Biodegradability : Result: rapidly biodegradable
Exposure time: 28 d
Method: OECD Test Guideline 301B

Butanone:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301D

Cumene:

Biodegradability : Result: Readily biodegradable.

acetophenone:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301C

Benzenemethanol, alpha,alpha-dimethyl-:

Biodegradability : Remarks: No data available

Hydrogen peroxide:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Components:

Cumene hydroperoxide:

Partition coefficient: n- : log Pow: 1.6

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

octanol/water

dimethyl phthalate:

Bioaccumulation : Bioconcentration factor (BCF): 57
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 1.54

2-Butanone, peroxide:

Partition coefficient: n-octanol/water : log Pow: < 0.3 (25 °C)

Trimethylpentanediol isobutyrate:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 1.95

Partition coefficient: n-octanol/water : log Pow: 4.91 (25 °C)

Butanone:

Partition coefficient: n-octanol/water : log Pow: 0.3 (40 °C)

Cumene:

Bioaccumulation : Bioconcentration factor (BCF): 94.69
Remarks: Calculation

Partition coefficient: n-octanol/water : log Pow: 3.55 (23 °C)

acetophenone:

Bioaccumulation : Bioconcentration factor (BCF): 0.48

Partition coefficient: n-octanol/water : log Pow: 1.63

Benzenemethanol, alpha,alpha-dimethyl-:

Partition coefficient: n-octanol/water : Remarks: No data available

Hydrogen peroxide:

Partition coefficient: n-octanol/water : log Pow: -1.57 (20 °C)
Remarks: Information refers to the main ingredient.
Calculation

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

Mobility in soil

No data available

Other adverse effects

Product:

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

Components:

dimethyl phthalate:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal 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

UNRTDG

UN number : UN 3105
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID
(METHYL ETHYL KETONE PEROXIDE(S), CUMYL HYDROPEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2
Environmentally hazardous : yes

IATA-DGR

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

UN/ID No. : UN 3105
Proper shipping name : Organic peroxide type D, liquid
(Methyl ethyl ketone peroxide(s), Cumyl hydroperoxide)
Class : 5.2
Packing group : Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat
Packing instruction (cargo aircraft) : 570
Packing instruction (passenger aircraft) : 570

IMDG-Code

UN number : UN 3105
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID
(METHYL ETHYL KETONE PEROXIDE(S), CUMYL
HYDROPEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R
Marine pollutant : yes

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

Not applicable for product as supplied.

Domestic regulation

TDG

UN number : UN 3105
Proper shipping name : ORGANIC PEROXIDE TYPE D, LIQUID
(METHYL ETHYL KETONE PEROXIDE(S), CUMYL
HYDROPEROXIDE)
Class : 5.2
Packing group : II
Labels : 5.2
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

NPRI Components : Cumene hydroperoxide
dimethyl phthalate
Cumene
acetophenone
Butanone

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

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
AIRC (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

Canadian lists

No substances are subject to a Significant New Activity Notification.

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.
These safety instructions also apply to empty packaging which may still contain product residues.
The hazards on the label also apply to residues in the container.

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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Revision Date	:	06/04/2024
Date format	:	mm/dd/yyyy

Full text of other abbreviations

SAFETY DATA SHEET

according to the Hazardous Products Regulations



NOROX[®]MCP-21

Version	Revision Date:	SDS Number:	Date of last issue: 07/25/2023
3.1	06/04/2024	600000000084	Date of first issue: 12/16/2016

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA AB OEL / (c)	:	ceiling occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA BC OEL / C	:	ceiling limit
CA QC OEL / TWAEV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value
CA QC OEL / C	:	Ceiling

AIIIC - 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 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 - 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; TECl - 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

SAFETY DATA SHEET

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