

# SAFETY DATA SHEET

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105



## NOROX<sup>®</sup>FC-100

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2023
1.3	06.06.2024	600000000132	Date of first issue: 13.07.2018

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

#### 1.1 Product identifier

Trade name : NOROX<sup>®</sup>FC-100

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

Use of the Sub-stance/Mixture : Hardener

#### 1.3 Details of the supplier of the safety data sheet

Company : United Initiators GmbH  
Dr.-Gustav-Adolph-Str. 3  
82049 Pullach

Telephone : +49 / 89 / 74422 – 0

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

#### 1.4 Emergency telephone number

0800 0 621 2139 (toll-free, access from Turkey only)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification T.R. SEA No 28848 and subsequent amendments

Organic peroxides, Type D	H242: Heating may cause a fire.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

#### 2.2 Label elements

Labelling T.R. SEA No 28848 and subsequent amendments

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- Hazard pictograms :
- Signal word : Danger
- Hazard statements : H242 Heating may cause a fire.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H361 Suspected of damaging fertility or the unborn child.
- Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P234 Keep only in original packaging.  
P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Hazardous components which must be listed on the label:  
2,4-Pentanedione, peroxide (CAS-No. 37187-22-7)  
Diacetone alcohol (CAS-No. 123-42-2)  
tert-Butyl perbenzoate (CAS-No. 614-45-9)

### 2.3 Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Organic Peroxide  
Liquid mixture

#### Components

Chemical name	CAS-No. EC-No.	SEA Classification	Concentration (% w/w)
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	Index-No. KKDIK Registration No.		
2,4-Pentanedione, peroxide	37187-22-7 237-438-9	Org. Perox. D; H242 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 25 - < 30
Diacetone alcohol	123-42-2 204-626-7 603-016-00-1	Eye Irrit. 2; H319 Repr. 2; H361 STOT SE 3; H335 (Respiratory system)  specific concentration limit Eye Irrit. 2; H319 >= 10 %	>= 25 - < 30
tert-Butyl perbenzoate	614-45-9 210-382-2	Org. Perox. C; H242 Acute Tox. 4; H332 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412  M-Factor (Acute aquatic toxicity): 1	>= 7,5 - < 10
Acetylacetone	123-54-6 204-634-0 606-029-00-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311	>= 1 - < 5

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : Take off contaminated clothing and shoes immediately.  
Call a physician immediately.  
Never give anything by mouth to an unconscious person.

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- If unconscious, place in recovery position and seek medical advice.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Administer oxygen if breathing is difficult or cyanosis is observed.  
If breathed in, move person into fresh air.  
If not breathing, give artificial respiration.  
Call a physician or poison control centre 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.  
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 : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
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.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : sensitising effects
- Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Suspected of damaging fertility or the unborn child.

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### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

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.  
Vapours may form explosive mixtures with air.  
The product will float on water and can be reignited on surface water.  
Cool closed containers exposed to fire with water spray.

### 5.3 Advice for firefighters

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

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

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must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

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

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contact with incompatible substances can cause decomposition at or below SADT.  
Clear spills immediately.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
To clean the floor and all objects contaminated by this 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.

#### 6.4 Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE

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### CONTROLS/PERSONAL PROTECTION section.

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

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in cool 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.
- Advice on common storage : Keep away from combustible materials. Keep away from strong acids, bases, heavy metal salts and

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other reducing substances.

Recommended storage temperature : 0 - 25 °C

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

### 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) :

Substance name	End Use	Exposure routes	Potential health effects	Value
3,5-dimethyl-1,2-dioxolane-3,5-diol	Workers	Inhalation	Long-term systemic effects	11,75 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	13,33 mg/kg bw/day
tert-Butyl perbenzoate	Workers	Inhalation	Long-term systemic effects	24,7 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	17,5 mg/kg bw/day
Diacetone alcohol	Workers	Inhalation	Acute local effects	240 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	9,4 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	66,4 mg/m <sup>3</sup>
Acetylacetone	Workers	Inhalation	Long-term local effects	66,4 mg/m <sup>3</sup>
	Workers	Inhalation		84 mg/m <sup>3</sup>
	Workers	Skin contact		12 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) :

Substance name	Environmental Compartment	Value
3,5-dimethyl-1,2-dioxolane-3,5-diol	Fresh water	0,054 mg/l
	Marine water	0,0054 mg/l
	Intermittent use/release	0,054 mg/l
	Fresh water sediment	0,48 mg/kg
	Marine sediment	0,048 mg/kg
	Sewage treatment plant	6,2 mg/l

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	Soil	0,065 mg/kg
tert-Butyl perbenzoate	Fresh water	0,01 mg/l
	Marine water	0,00101 mg/l
	Intermittent use/release	0,008 mg/l
	Sewage treatment plant	0,6 mg/l
	Fresh water sediment	0,28 mg/kg
	Marine sediment	0,028 mg/kg
	Soil	0,049 mg/kg
Diacetone alcohol	Fresh water	2 mg/l
	Marine water	0,2 mg/l
	Sewage treatment plant	82 mg/l
	Fresh water sediment	9,06 mg/kg dry weight (d.w.)
	Marine sediment	0,91 mg/kg dry weight (d.w.)
	Soil	0,63 mg/kg dry weight (d.w.)
Acetylacetone	Fresh water	0,026 mg/l
	Marine water	0,0026 mg/l
	Sewage treatment plant	1,32 mg/l
	Fresh water sediment	0,155 mg/kg wet weight
	Marine sediment	0,0155 mg/kg wet weight
	Soil	0,01582 mg/kg wet weight

### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye/face protection : Ensure that eyewash stations and safety showers are close to the workstation location.  
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.  
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.  
Tightly fitting safety goggles  
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.

#### Hand protection

Material : Nitrile rubber  
Break through time : 120 min  
Glove thickness : 0,40 mm

Material : butyl-rubber  
Break through time : 480 min  
Glove thickness : 0,47 mm

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- 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.
- 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.
- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Filter type : ABEK-filter
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : Colorless to pale yellow
- Odour : mild
- Odour Threshold : not determined
- pH : No data available
- Melting point/range : No data available

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Boiling point/boiling range	:	No data available
Flash point	:	65 °C Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable Remarks: Organic peroxide
Upper explosion limit / Upper flammability limit	:	Upper explosion limit No data available
Lower explosion limit / Lower flammability limit	:	Lower explosion limit No data available
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	ca. 1,1 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	not determined
Viscosity Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive In use, may form flammable/explosive vapour-air mixture.
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Organic peroxide

### 9.2 Other information

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.
Self-heating substances	:	The substance or mixture is not classified as self heating.

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Self-ignition : The substance or mixture is not classified as pyrophoric.

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

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

#### 10.2 Chemical stability

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

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

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

#### 10.6 Hazardous decomposition products

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

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified due to lack of data.

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h

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Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

### Components:

#### **2,4-Pentanedione, peroxide:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male): > 13,1 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Method: Expert judgement  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: Expert judgement  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Diacetone alcohol:**

Acute oral toxicity : LD50 (Rat): 3.002 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, male and female): >= 7,6 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD0 (Rat): > 1.875 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

#### **tert-Butyl perbenzoate:**

Acute oral toxicity : LD0 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): 1,01 mg/l

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Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436

Acute dermal toxicity : LD0 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### Acetylacetone:

Acute oral toxicity : LD50 (Rat): 570 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5,1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, female): 790 mg/kg

### Skin corrosion/irritation

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

### Product:

Remarks : May cause skin irritation and/or dermatitis.

### Components:

#### 2,4-Pentanedione, peroxide:

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

#### Diacetone alcohol:

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

#### tert-Butyl perbenzoate:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

### Acetylacetone:

Species : Rabbit  
Result : No skin irritation

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### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

Remarks : May cause irreversible eye damage.

#### Components:

##### **2,4-Pentanedione, peroxide:**

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

##### **Diacetone alcohol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

##### **tert-Butyl perbenzoate:**

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

##### **Acetylacetone:**

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitisation

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified due to lack of data.

#### Product:

Remarks : Causes sensitisation.

#### Components:

##### **2,4-Pentanedione, peroxide:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Probability or evidence of skin sensitisation in humans

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Remarks : Causes sensitisation.

### Diacetone alcohol:

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

### tert-Butyl perbenzoate:

Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.

### Acetylacetone:

Exposure routes : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### 2,4-Pentanedione, peroxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: positive

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

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

#### Diacetone alcohol:

Genotoxicity in vitro : Method: OECD Test Guideline 476  
Result: negative

Method: OECD Test Guideline 471  
Result: negative

Method: OECD Test Guideline 473  
Result: negative

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Genotoxicity in vivo : Remarks: Not classified due to data which are conclusive although insufficient for classification.

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **tert-Butyl perbenzoate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: positive

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: positive

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

Test Type: Mouse Lymphoma  
Result: positive

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Result: negative

### **Acetylacetone:**

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

Method: OECD Test Guideline 479  
Result: positive

Method: OECD Test Guideline 473  
Result: positive

Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Method: OECD Test Guideline 474  
Result: positive

Method: OECD Test Guideline 483  
Result: negative

Method: OECD Test Guideline 475  
Result: negative

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Method: OECD Test Guideline 478  
Result: Equivocal

Test Type: DNA Repair  
Species: Rat  
Application Route: Oral  
Result: negative

Species: Rat  
Application Route: inhalation (vapour)  
Method: OPPTS 870.5395  
Result: negative

### **Carcinogenicity**

Not classified due to lack of data.

### **Components:**

#### **2,4-Pentanedione, peroxide:**

Remarks : This information is not available.

#### **Diacetone alcohol:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### **tert-Butyl perbenzoate:**

Remarks : This information is not available.

### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

### **Components:**

#### **2,4-Pentanedione, peroxide:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

#### **Diacetone alcohol:**

Effects on fertility : Species: Rat  
Application Route: oral (gavage)  
General Toxicity - Parent: NOAEL: 300 mg/kg body weight  
General Toxicity F1: NOAEL: 300 mg/kg body weight  
Method: OECD Test Guideline 422

Effects on foetal development : Species: Rat

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ment      Application Route: inhalation (vapour)  
General Toxicity Maternal: NOAEL: 4,106  
Embryo-foetal toxicity: NOAEL: 12.292  
Method: OECD Test Guideline 414

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

### **tert-Butyl perbenzoate:**

Effects on fertility : Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 300 mg/kg body weight  
Method: OECD Test Guideline 421

Effects on foetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Method: OECD Test Guideline 414

### **Acetylacetone:**

Effects on foetal development : Species: Rat  
Application Route: inhalation (vapour)  
Duration of Single Treatment: 13 d  
General Toxicity Maternal: NOAEC: 200  
Teratogenicity: NOAEC Parent: 400  
Embryo-foetal toxicity: NOAEC F1: 50  
Method: OECD Test Guideline 414

Species: Rat  
Application Route: inhalation (vapour)  
Duration of Single Treatment: 13 d  
General Toxicity Maternal: LOAEC: 400  
Embryo-foetal toxicity: LOAEC F1: 200  
Method: OECD Test Guideline 414

### **STOT - single exposure**

May cause respiratory irritation.

### **Components:**

#### **Diacetone alcohol:**

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

### **STOT - repeated exposure**

Not classified due to lack of data.

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### Repeated dose toxicity

#### Components:

##### **Diacetone alcohol:**

Species : Rat  
NOAEL : 1,04 mg/l  
LOAEL : 4,685 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 6 w  
Method : OECD Test Guideline 412

Species : Rat  
NOAEL : 100 mg/kg  
Application Route : oral (gavage)  
Method : OECD Test Guideline 422

##### **Acetylacetone:**

Species : Rat  
NOAEL : 200 mg/kg  
LOAEL : 805 mg/kg  
Application Route : inhalation (vapour)  
Exposure time : 9 d

Species : Rat  
NOAEL : 100 mg/kg  
Application Route : inhalation (vapour)  
Exposure time : 90 d  
Method : OECD Test Guideline 413

Species : Rabbit  
NOAEL : 244 mg/kg  
LOAEL : 975 mg/kg  
Application Route : Dermal  
Exposure time : 9 d

### Aspiration toxicity

Not classified due to lack of data.

#### Components:

##### **Acetylacetone:**

No aspiration toxicity classification

### Further information

#### Product:

Remarks : No data available

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### Components:

#### **Acetylacetone:**

Remarks : Solvents may degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **2,4-Pentanedione, peroxide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 67,6 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)): 7,05 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 5,36 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : 614 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

##### **Diacetone alcohol:**

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EbC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 1.000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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### tert-Butyl perbenzoate:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 11 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,72 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 : 43 mg/l  
Exposure time: 0,5 h  
Method: OECD Test Guideline 209
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,49 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Acetylacetone:

- Toxicity to fish : LC50 (Fish): 104 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 25,9 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 83,22 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 3,2 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 : 107,6 mg/l

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Exposure time: 3 h  
Method: OECD Test Guideline 209

EC10 : 13,2 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 34 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 210

LOEC: 22 mg/l  
Exposure time: 34 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 18 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 12.2 Persistence and degradability

#### Components:

##### **2,4-Pentanedione, peroxide:**

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

##### **Diacetone alcohol:**

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

##### **tert-Butyl perbenzoate:**

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

##### **Acetylacetone:**

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

### 12.3 Bioaccumulative potential

#### Components:

##### **2,4-Pentanedione, peroxide:**

Partition coefficient: n- : log Pow: 1,1 (25 °C)



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Clean container with water.  
Dispose of contents/ container to an approved waste disposal plant.  
Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

---

### SECTION 14: Transport information

#### 14.1 UN number

**ADR** : UN 3105  
**IMDG** : UN 3105

#### 14.2 UN proper shipping name

**ADR** : ORGANIC PEROXIDE TYPE D, LIQUID  
(ACETYL ACETONE PEROXIDE, tert-BUTYL PEROXYBENZOATE)  
**IMDG** : ORGANIC PEROXIDE TYPE D, LIQUID  
(ACETYL ACETONE PEROXIDE, tert-BUTYL PEROXYBENZOATE)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADR</b>	: 5.2	
<b>IMDG</b>	: 5.2	

#### 14.4 Packing group

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : P1  
Labels : 5.2  
Tunnel restriction code : (D)  
**IMDG**  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R

#### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no  
**IMDG**  
Marine pollutant : no

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### 14.6 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.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

KKDIK (30105 (Bis)) - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex 17) : Conditions of restriction for the following entries should be considered: Number on list 3

Regulation on Persistent Organic Pollutants (Number 30595 and subsequent amendments published) : Not applicable

Regulation on prevention of major industrial accidents. Reg number 30702 P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

#### Other regulations:

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)

T.R. Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated December 11, 2013 and numbered 28848 from the Ministry of Environment and Urbanization and the subsequent amendments published.

#### The components of this product are reported in the following inventories:

TCSI (TW)	: On the inventory, or in compliance with the inventory
TSCA (US)	: All substances listed as active on the TSCA inventory
AiIC (AU)	: On the inventory, or in compliance with the inventory
DSL (CA)	: All components of this product are on the Canadian DSL
ENCS (JP)	: On the inventory, or in compliance with the inventory

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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

### 15.2 Chemical safety assessment

This information is not available.

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## SECTION 16: Other information

### Further information

Other information : This 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 Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Org. Perox. D	H242
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 2	H361
STOT SE 3	H335

### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H242 : Heating may cause a fire.  
H302 : Harmful if swallowed.

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H311	: Toxic in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H361	: Suspected of damaging fertility or the unborn child.
H400	: Very toxic to aquatic life.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Org. Perox.	: Organic peroxides
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL -

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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.

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