Revision Date:

CUROX[®]M-303

Version



Date of last issue: 08.07.2022

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

SDS Number:

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

Emergency telephone number : +44 1235 239671

Recommended use of the chemical and restrictions on use

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

2. HAZARDS IDENTIFICATION

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

GHS label elements

Hazard pictograms





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



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Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components

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

4. FIRST AID MEASURES

| Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Administer oxygen if breathing is difficult or cyanosis is ob- served. Call a physician immediately. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Respiratory tract burning possible if aerosols are inhaled. Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. |
| If symptoms persist, call a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. |
| |



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

5. FIREFIGHTING MEASURES

| Suitable extinguishing media | : | Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|-------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire- fighting | : | Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to tempera- tures exceeding SADT may result in a self-accelerating de- composition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses. |



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

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Follow safe handling advice and personal protective equip- ment recommendations. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas. Use personal protective equipment. Remove all sources of ignition. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations". |
|-------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | : | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Contact with incompatible substances can cause decomposi- tion at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapours/mists with a water spray jet. To clean the floor and all objects contaminated by this materi- al, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used. Local or national regulations may apply to releases and dis- |



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

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| | | | | | |
| | | | | other reducing su | hstances |
| | | | | other reducing 30 | batanees. |
| | Recom | mended storage tem- | : | < 30 °C | |
| | Further | information on stor- bility | : | No decomposition | if stored normally. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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

Engineering measures : Minimize workplace exposure concentrations.

| Personal protective equipm | ent | |
|---------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection | : | In the case of dust or aerosol formation use respirator with an approved filter. |
| Filter type | : | ABEK-filter |
| Hand protection Material Break through time Glove thickness Material Break through time Glove thickness | - | Nitrile rubber < 30 min 0.40 mm butyl-rubber 480 min 0.47 mm |
| Remarks | : | The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protec- tive glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazard- ous substance and specific to place of work. For special ap- plications, we recommend clarifying the resistance to chemi- |

Personal protective equipment



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

9. PHYSICAL AND CHEMICAL PROPERTIES

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



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

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

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



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



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



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



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



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



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



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



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| | | | |

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

2-methylpentane-2,4-diol:

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

Aspiration toxicity

Not classified based on available information.

Components:

dimethyl phthalate:

No aspiration toxicity classification

hydrogen peroxide:

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

2-methylpentane-2,4-diol:

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

Further information

Product:

Remarks

: No data available

Components:

| dimethyl phthalate: | | |
|---------------------|---|-------------------|
| Remarks | : | No data available |



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| | | | | |

12. ECOLOGICAL INFORMATION

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



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



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



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| | | | | | |
| hydro | ogen peroxide: | | | | |
| | on coefficient: n- ol/water | : | log Pow: -1.57 (20 Remarks: Informa Calculation |) °C) tion refers to the main component. | |
| Partiti | 2-methylpentane-2,4-diol: Partition coefficient: n- octanol/water | | log Pow: -0.14 | | |
| | l ity in soil Ita available | | | | |
| Other | adverse effects | | | | |
| Produ Additi matio | onal ecological infor- | : | | hazard cannot be excluded in the event of ndling or disposal. fe. | |
| <u>Com</u> p | oonents: | | | | |
| dime | thyl phthalate: | | | | |
| Additional ecological infor- mation | | : | No data available | | |
| 3. DISPOSAL CONSIDERATIONS | | | | | |
| Dispo | sal methods | | | | |
| Waste | e from residues | : | The product shou courses or the so | te ponds, waterways or ditches with chemi- | |
| Contaminated packaging | | : | Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste dispose plant. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. | | |

14. TRANSPORT INFORMATION

International Regulations



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

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

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

15. REGULATORY INFORMATION

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

Gefahrgruppe nach TRGS 741: lb (German regulatory requirements)

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



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

Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA



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- International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AE / EN