

SAFETY DATA SHEET

CP



Version 3.0 Revision Date: 18.02.2021 SDS Number: 600000000018 Date of last issue: 14.05.2019
Date of first issue: 03.02.2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CP
CAS-No. : 124-43-6

Manufacturer or supplier's details

Company : United Initiators Pty Ltd
Address : 20-22 McPherson Street
Banksmeadow NSW 2019 Australia
Telephone : +61 2 9188 3690 (Monday–Friday office hours only)
Emergency telephone number : +49 89 744220 (24 hours specialist advise)
E-mail address : cs-initiators.au@united-in.com

Recommended use of the chemical and restrictions on use


Recommended use : Oxidizing agents

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing solids : Category 3
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 1
Short-term (acute) aquatic hazard : Category 2

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H401 Toxic to aquatic life.

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Precautionary statements : **Prevention:**
P210 Keep away from heat.
P220 Keep/ Store away from clothing/ combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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 or doctor/ physician.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use water spray for extinction.

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

Other hazards which do not result in classification
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Chemical nature : Solid
Substance name : hydrogen peroxide-urea
CAS-No. : 124-43-6

Components

Chemical name	CAS-No.	Concentration (% w/w)
hydrogen peroxide--urea	124-43-6	<= 100

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Call a physician immediately.

If inhaled : If unconscious, place in recovery position and seek medical

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- advice.
If symptoms persist, call a physician.
If breathed in, move person into fresh air.
- In case of skin contact : 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.
If symptoms persist, call a physician.
- 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 : Keep respiratory tract clear.
Do NOT induce vomiting.
Call a physician immediately.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
Causes serious eye damage.
- 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. 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 : 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.
Cool closed containers exposed to fire with water spray.

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- Specific extinguishing methods : 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.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 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.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.
- Hazchem Code : 1X
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Remove all sources of ignition.
Follow safe handling advice and personal protective equipment recommendations.
Never return spills in original containers for re-use.
Treat recovered material as described in the section "Disposal considerations".
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contact with incompatible substances can cause decomposition at or below SADT.
Clear spills immediately.
Suppress (knock down) gases/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.

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SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Advice on protection against fire and explosion : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.
Keep away from combustible material.
- Advice on safe handling : Do not swallow.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
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.
Protect from contamination.
- Hygiene measures : 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.
- Conditions for safe storage : 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.
Store in original container.
Store in accordance with the particular national regulations.
- Materials to avoid : Keep away from strong acids, bases, heavy metal salts and other reducing substances.
- Recommended storage temperature : < 30 °C
- Further information on storage stability : No decomposition if stored normally.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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 : Filter type P

Hand protection

Material : butyl-rubber

Break through time : 480 min

Glove thickness : 0.5 mm

Remarks : 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 : Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.
Ensure that eyewash stations and safety showers are close to the workstation location.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : crystalline

Colour : white

Odour : characteristic

Odour Threshold : No data available

pH : 5.2

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Concentration: 100 g/l

Melting point/range : ca. 72.5 °C
Decomposition

Initial boiling point and boiling range : Not applicable Decomposition

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : does not ignite

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Density : ca. 0.65 g/cm³ (20 °C)

Bulk density : 650 kg/m³

Solubility(ies)
Water solubility : 500 g/l soluble (20 °C)

Partition coefficient: n-octanol/water : log Pow: 0.09 (25 °C)

Self-Accelerating decomposition temperature (SADT) : 60 °C
Method: UN-Test H.4
SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is classified as oxidizing with the category 3.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under recommended storage conditions.

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Possibility of hazardous reactions : Dust may form explosive mixture in air.

Conditions to avoid : No data available

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

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: Expert judgement
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Components:

hydrogen peroxide--urea:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: Expert judgement
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Not classified due to data which are conclusive although insufficient for classification.

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Skin corrosion/irritation

Causes skin irritation.

Product:

Species : reconstructed human epidermis (RhE)
Result : Skin irritation

Remarks : May cause skin irritation in susceptible persons.

Components:

hydrogen peroxide--urea:

Species : reconstructed human epidermis (RhE)
Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species : Bovine cornea
Result : Risk of serious damage to eyes.

Remarks : May cause irreversible eye damage.

Components:

hydrogen peroxide--urea:

Species : Bovine cornea
Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Exposure routes : Skin contact
Result : Does not cause skin sensitisation.
Remarks : Based on available data, the classification criteria are not met.

Components:

hydrogen peroxide--urea:

Exposure routes : Skin contact
Result : Does not cause skin sensitisation.

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

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Ames test
Result: positive

Genotoxicity in vivo : Test Type: in vivo assay
Result: negative
Remarks: In vivo tests did not show mutagenic effects

Components:

hydrogen peroxide--urea:

Genotoxicity in vitro : Test Type: Ames test
Result: positive

Genotoxicity in vivo : Test Type: in vivo assay
Result: negative
Remarks: In vivo tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

hydrogen peroxide--urea:

Remarks : This information is not available.

Reproductive toxicity

Not classified based on available information.

Components:

hydrogen peroxide--urea:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

STOT - single exposure

Not classified based on available information.

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STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Product:

Species : Mouse
NOAEL : 71.8 mg/kg
Application Route : Oral

Species : Rat
NOAEL : 338.4 mg/kg
Application Route : Skin contact

Components:

hydrogen peroxide--urea:

Species : Mouse
NOAEL : 71.8 mg/kg
Application Route : Oral

Species : Rat
NOAEL : 338.4 mg/kg
Application Route : Skin contact

Aspiration toxicity

Not classified based on available information.

Product:

No data available

Components:

hydrogen peroxide--urea:

No data available

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50: 37.4 mg/l
Exposure time: 96 h

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 5.6 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (algae): 6.8 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC10: 11 mg/l
End point: Growth rate
Exposure time: 18 h

Components:

hydrogen peroxide--urea:

Toxicity to fish : LC50: 37.4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 5.6 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (algae): 6.8 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC10: 11 mg/l
End point: Growth rate
Exposure time: 18 h

Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.

Components:

hydrogen peroxide--urea:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Components:

hydrogen peroxide--urea:

Partition coefficient: n-octanol/water : log Pow: 0.09 (25 °C)

Mobility in soil

No data available

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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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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.
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : 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.
Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1511
Proper shipping name : UREA HYDROGEN PEROXIDE
Class : 5.1
Subsidiary risk : 8
Packing group : III
Labels : 5.1 (8)

IATA-DGR

UN/ID No. : UN 1511
Proper shipping name : Urea hydrogen peroxide
Class : 5.1
Subsidiary risk : 8
Packing group : III
Labels : Oxidizer, Corrosive
Packing instruction (cargo aircraft) : 563
Packing instruction (passenger aircraft) : 559

IMDG-Code

UN number : UN 1511
Proper shipping name : UREA HYDROGEN PEROXIDE

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Class : 5.1
Subsidiary risk : 8
Packing group : III
Labels : 5.1 (8)
EmS Code : F-A, S-Q
Marine pollutant : no

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

Not applicable for product as supplied.

National Regulations

ADG

UN number : UN 1511
Proper shipping name : UREA HYDROGEN PEROXIDE
Class : 5.1
Subsidiary risk : 8
Packing group : III
Labels : 5.1 (8)
Hazchem Code : 1X

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

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

Standard for the Uniform : Schedule 6
Scheduling of Medicines and
Poisons

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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
AICS (AU) : On the inventory, or in compliance with the inventory

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DSL (CA) : None of the components of this product are on the Canadian DSL, but all are on the NDSL
hydrogen peroxide--urea

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

NZIoC (NZ) : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 18.02.2021

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.

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/>

Date format : dd.mm.yyyy

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - 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

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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; 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.

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