

**Safety Data Sheet**  
**HYDROGEN PEROXIDE 35 - 40%**

Version 1.1

Revision Date: 08/02/2021

**SECTION 1. IDENTIFICATION****Product name** : HYDROGEN PEROXIDE 35 - 40%**Synonyms** : No data available**Recommended use of the chemical and restrictions on use****Recommended use** : Reserved for industrial and professional use.**Restricted Uses** : No data available**Manufacturer or supplier's details****Company** : Univar Solutions Canada Ltd.  
**Address** : 9800 Van Horne Way  
Richmond, BC V6X1W5  
Canada**Emergency telephone number:**

Local Emergency Contact : During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific Standard Time) : 1-866-686-4827

**Additional Information:** : Responsible Party: Product Compliance Department  
E-mail: [SDSNA@univarsolutions.com](mailto:SDSNA@univarsolutions.com)  
SDS Requests: 1-855-429-2661  
Website: [www.univarsolutions.com](http://www.univarsolutions.com)**SECTION 2. HAZARD IDENTIFICATION****Hazardous Classification of the substance or mixture****Oxidizing liquids** : Category 2**Acute toxicity (Oral)** : Category 4**Skin irritation** : Category 2**Serious eye damage** : Category 1**Specific target organ toxicity - single exposure** : Category 3 (Respiratory system)**Label elements****Hazard pictograms****Signal word** : Danger

# Safety Data Sheet

## HYDROGEN PEROXIDE 35 - 40%

Version 1.1

Revision Date: 08/02/2021

- Hazard statements**
- H272 May intensify fire; oxidizer.
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.
- Precautionary statements**
- Prevention:**
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P220 Keep away from clothing and other combustible materials.
  - P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
  - P264 Wash skin thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
  - P302 + P352 IF ON SKIN: Wash with plenty of water.
  - P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
  - P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
  - P332 + P313 If skin irritation occurs: Get medical advice/ attention.
  - P362 + P364 Take off contaminated clothing and wash it before reuse.
  - P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- Storage:**
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
  - P405 Store locked up.
- Disposal:**
- P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

CAS-No.	Chemical name	% by Weight	Synonyms
7722-84-1	Hydrogen peroxide (H2O2)	35 - 50	Hydrogen peroxide (H2O2)

Actual concentration or concentration range is withheld as a trade secret

**Safety Data Sheet**  
**HYDROGEN PEROXIDE 35 - 40%**

Version 1.1

Revision Date: 08/02/2021

**Molecular formula** : H<sub>2</sub>O<sub>2</sub>**SECTION 4. FIRST-AID MEASURES**

- General advice** : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled** : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact** : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact** : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed** : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

**SECTION 5. FIREFIGHTING MEASURES**

- Unsuitable extinguishing media** : High volume water jet
- Specific hazards during fire-fighting** : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products** : Acetic acid
- Further information** : 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.

**Safety Data Sheet**  
**HYDROGEN PEROXIDE 35 - 40%**

Version 1.1

Revision Date: 08/02/2021

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

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.

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 : Neutralize with chalk, alkali solution or ammonia.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

---

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

---

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

## Safety Data Sheet

### HYDROGEN PEROXIDE 35 - 40%

Version 1.1

Revision Date: 08/02/2021

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
7722-84-1	Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )	TWA	1 ppm 1.4 mg/m <sup>3</sup>	CA AB OEL
		TWA	1 ppm	CA BC OEL
		TWAEV	1 ppm 1.4 mg/m <sup>3</sup>	CA QC OEL

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Inorganic gas/vapour type

In the case of vapour formation use a respirator with an approved filter.

#### Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : clear

Colour : colorless

Odour : odorless

Odour Threshold : No data available

pH : 3.7

Freezing Point (°C) : -33 - -15 °C (-27 - 5 °F)

Boiling Point (°C) : 100 - 176 °C (212 - 349 °F)

**Safety Data Sheet**  
**HYDROGEN PEROXIDE 35 - 40%**

Version 1.1

Revision Date: 08/02/2021

Flash point	: does not flash
Evaporation rate	: > 1
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 30.664 hPa
Relative vapour density	: No data available
Relative density	: 1.13
Density	: 9.45 lb/gal
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: 1.5
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Oxidizing properties	: The substance or mixture is classified as oxidizing with the category 2.

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Bases brass bronze Chromium oxides Combustible material Copper decomposition catalysts such as heavy metal ions

**Safety Data Sheet**  
**HYDROGEN PEROXIDE 35 - 40%**

Version 1.1

Revision Date: 08/02/2021

hydrochloric acid  
Iron  
Metals  
Organic materials  
Reducing agents  
Silver  
Zinc  
Rust  
Dirt

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 1,250 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 27.5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour**Components:****7722-84-1:**Acute oral toxicity : LD50 (Rat, male and female): 1,193 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.**Skin corrosion/irritation****Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Components:****7722-84-1:**Species: Rabbit  
Exposure time: 4 h  
Result: Causes severe burns.**Serious eye damage/eye irritation****Product:**

Remarks: May cause irreversible eye damage.

**Components:****7722-84-1:**Species: Rabbit  
Result: Risk of serious damage to eyes.  
Exposure time: 20 s

**Safety Data Sheet**  
**HYDROGEN PEROXIDE 35 - 40%**

Version 1.1

Revision Date: 08/02/2021

Test substance: Hydrogen peroxide

**ACGIH**

Confirmed animal carcinogen with unknown relevance to humans

7722-84-1

Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)**Reproductive toxicity****Components:****7722-84-1:**

Effects on foetal development

: Species: Rat  
Application Route: Oral  
Dose: 0, 0.02, 0.1, 2, 10 %diet  
Duration of Single Treatment: 7 d  
Teratogenicity: NOAEL: 0.02 % diet  
Developmental Toxicity: NOAEL: 0.02 % diet  
Symptoms: Skeletal malformations, Reduced number of viable fetuses  
Result: Embryotoxic effects and adverse effects on the offspring were detected.

**STOT - single exposure****Components:****7722-84-1:**

Target Organs: Respiratory system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**Further information****Product:**

Remarks: No data available

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****7722-84-1:**

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia pulex (Water flea)): 2.4 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Test substance: hydrogen peroxide

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test

**Safety Data Sheet**  
**HYDROGEN PEROXIDE 35 - 40%**

Version 1.1

Revision Date: 08/02/2021

Test substance: hydrogen peroxide

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

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

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

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

---

**SECTION 14. TRANSPORT INFORMATION****TDG (Transportation of Dangerous Goods):**

UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

**IATA (International Air Transport Association):**

UN2014, Hydrogen peroxide, aqueous solution, 5.1 (8), II

**IMDG (International Maritime Dangerous Goods):**

UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1, (8), II

## Safety Data Sheet

### HYDROGEN PEROXIDE 35 - 40%

Version 1.1

Revision Date: 08/02/2021

#### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

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

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

#### SECTION 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) [SDSNA@univarsolutions.com](mailto:SDSNA@univarsolutions.com).

**Revision Date** : 08/02/2021

**Material number:**

16181545, 16178885, 16182411, 16175076, 16174806, 16174705, 16176523, 16174814, 16176529, 16169227, 16153369, 16158305, 16158714, 16157897, 16153674, 16152759, 16143914, 16143638, 16157086, 16149648, 16165710, 16141710, 16144559, 16149233, 16160467, 16135928, 16154285, 16153839, 16156815, 16157821, 16153354, 16153227, 16150185, 16140783, 16141438, 16141469, 16142219, 16140405

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency

## Safety Data Sheet

### HYDROGEN PEROXIDE 35 - 40%

Version 1.1

Revision Date: 08/02/2021

	List		
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%