



Univar USA Inc Safety Data Sheet

SDS No:

Version No:

Order No:

3075 Highland Pkwy, Ste 200, Downers Grove, IL 60515
(425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call
Chemtrec - (800) 424-9300



Univar
3075 Highland Pkwy STE 200
Downers Grove, IL 60515
425-889-3400

SAFETY DATA SHEET

1. Identification

Product identifier: - HYDROGEN PEROXIDE 50 - <52%

Other means of identification

SDS number: 000100000014

Recommended use and restriction on use

Recommended use: Reserved for industrial and professional use.

Restrictions on use: Not known.

Emergency telephone number:For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

2. Hazard(s) identification

Hazard classification

Physical hazards

Oxidizing liquids Category 2

Oxidizing liquids Category 2

Health hazards

Acute toxicity (Oral) Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Label elements

Hazard symbol

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Signal word

Danger

Hazard statement

Causes serious eye damage.
Harmful if swallowed.
Harmful if inhaled.
May cause irritation to the respiratory system.
Causes skin irritation.
May intensify fire; oxidizer.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep away from clothing and other combustible materials. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. Take off contaminated clothing and wash before reuse. In case of fire: Use ... to extinguish.

Storage

Store in a closed container. Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Store away from other materials.

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Disposal Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification None.

3. Composition/information on ingredients

Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Hydrogen peroxide (H2O2)		7722-84-1	50 - <52%
Water		7732-18-5	48 - 50%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately. Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately. Rinse mouth thoroughly.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention immediately. Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention immediately.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

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Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. Get medical attention immediately. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. Get medical attention immediately. Rinse immediately with plenty of water.

Most important symptoms/effects, acute and delayed
Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General fire hazards: No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use: Water Spray or Fog. Use: Water Spray or Fog. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: Oxidizer. Not combustible. Reaction with combustible materials, ammonium salts, or foreign substances may increase the fire hazard. Thermally unstable. Decomposes at fire temperature and is self-sustaining even if heat source is removed. Closed containers may rupture violently when heated.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Avoid breathing fire vapors.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep unauthorized personnel away. Use personal protective equipment. Avoid breathing mist.

Methods and material for containment and cleaning up: Absorb spillage with non-combustible, absorbent material. Dike for later disposal. Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

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7. Handling and storage

Precautions for safe handling: Use personal protective equipment as required. Wash thoroughly after handling. Use only with adequate ventilation. Wash contaminated clothing before reuse. Use personal protective equipment as required. Wash thoroughly after handling. Use only with adequate ventilation. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Keep containers closed when not in use. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Protect from light, including direct sunrays.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
Hydrogen peroxide (H2O2)	TWA	1 ppm 1.4 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	14 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1.4 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
Hydrogen peroxide (H2O2) - as H2O2	TWA PEL	1 ppm 1.4 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Hydrogen peroxide (H2O2)	TWA	1 ppm	US. ACGIH Threshold Limit Values (03 2013)
	REL	1 ppm 1.4 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1 ppm 1.4	US. OSHA Table Z-1 Limits for Air

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Chemical identity	Type	Exposure Limit values	Source
		mg/m3	Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1 ppm 1.4 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Hydrogen peroxide (H2O2)	TWA	1 ppm 1.4 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
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	PEL	1 ppm 1.4 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1 ppm 1.4 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Appropriate engineering controls No data available.

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Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Practice good housekeeping. Eye wash facilities and emergency shower must be available when handling this product. Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Eye/face protection: Wear tight-fitting goggles or face shield.

Skin protection

Hand protection: Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection: In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Seek advice from supervisor on the company's respiratory protection standards. If ventilation is insufficient, suitable respiratory protection must be provided.

Hygiene measures: No data available.

9. Physical and chemical properties

Physical state: Liquid

Form: Clear Liquid

Color: Colorless

Odor: Odorless

Odor threshold: No data available.

pH: 3.7

Melting point/freezing point: -52 °C

Initial boiling point and boiling range: 114 °C

Flash Point: Does not flash

Evaporation rate: > 1

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

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Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	2.1198 kPa
Vapor density:	No data available.
Relative density:	1.13
Solubility(ies)	
Solubility in water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	1.5
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	1.17 mm ² /s

10. Stability and reactivity

Reactivity:	No data available.
Chemical stability:	No data available.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizer - avoid contact with reducing agents.
Hazardous decomposition products:	No data available.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	ATEmix (): 1,026 mg/kg

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	ATEmix (>): 1,026 mg/kg
Dermal	
Product:	Not classified for acute toxicity based on available data.
Inhalation	
Product:	LC 50 (Rat, 4 h): >= 0.17 mg/l
Repeated dose toxicity	
Product:	No data available.
Skin corrosion/irritation	
Product:	No data available.
Serious eye damage/eye irritation	
Product:	No data available.
Respiratory or skin sensitization	
Product:	No data available.
Carcinogenicity	
Product:	No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:	
No carcinogenic components identified	
US. National Toxicology Program (NTP) Report on Carcinogens:	
No carcinogenic components identified	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):	
No carcinogenic components identified	
Germ cell mutagenicity	
In vitro	
Product:	No data available.
In vivo	
Product:	No data available.
Reproductive toxicity	
Product:	No data available.
Specific target organ toxicity - single exposure	
Product:	No data available.
Specific target organ toxicity - repeated exposure	
Product:	No data available.
Aspiration hazard	
Product:	No data available.
Other effects:	No data available.

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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Hydrogen peroxide LC 50 (Chameleon goby (*Tridentiger trigonocephalus*), 24 h): 155 mg/l
(H₂O₂) Mortality LC 50 (Jack Mackerel (*Trachurus japonicus*), 24 h): 89 mg/l
Mortality

Aquatic invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and degradability

Biodegradation

Product: No data available.

BOD/COD ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product: No data available.

Partition coefficient n-octanol / water (log Kow)

Product: Log Kow: 1.5

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Hydrogen peroxide No data available.

Water No data available.

Known or predicted distribution to environmental compartments

Water No data available.

Known or predicted distribution to environmental compartments

Hydrogen peroxide No data available.

Known or predicted distribution to environmental compartments

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Water No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste and residues in accordance with local authority requirements. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated packaging: No data available.

14. Transport information

DOT

UN number: UN 2014
UN proper shipping name: Hydrogen peroxide, aqueous solutions
Transport hazard class(es)
Class: 5.1
Label(s): 5.1, 8
Packing group: II
Marine Pollutant: Not regulated.
Special precautions for user: -

IMDG

UN number: UN 2014
UN proper shipping name: Hydrogen peroxide, aqueous solution
Transport hazard class(es)
Class: 5.1
Label(s): 5.1, 8
EmS No.: F-H, S-Q
Packing group: II
Marine Pollutant: Not regulated.
Special precautions for user: -

IATA

UN number: UN 2014
Proper Shipping Name: Hydrogen peroxide, aqueous solution
Transport hazard class(es):
Class: 5.1
Label(s): 5.1, 8
Packing group: II
Environmental hazards: Not regulated.
Special precautions for user: -
Other information

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Passenger and cargo aircraft: Allowed.
Cargo aircraft only: Allowed.

15. Regulatory information

US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely hazardous substance

Chemical identity	RQ	Threshold Planning Quantity
Hydrogen peroxide (H2O2)	1000 lbs.	1000 lbs.
Chemical identity	RQ	Threshold Planning Quantity
Hydrogen peroxide (H2O2)	1000 lbs.	1000 lbs.

SARA 304 Emergency release notification

Chemical identity	RQ
Hydrogen peroxide (H2O2)	

SARA 311/312 Hazardous chemical

Chemical identity	Threshold Planning Quantity
Hydrogen peroxide (H2O2)	500lbs
Hydrogen peroxide (H2O2)	500lbs

SARA 313 (TRI reporting)

None present or none present in regulated quantities.

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US state regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

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US. New Jersey Worker and Community Right-to-Know Act

Hydrogen peroxide (H2O2) Listed

Hydrogen peroxide (H2O2) Listed

US. Massachusetts RTK - Substance List

Hydrogen peroxide (H2O2) Listed

Hydrogen peroxide (H2O2) Listed

US. Pennsylvania RTK - Hazardous Substances

Hydrogen peroxide
(H2O2) Listed

Hydrogen peroxide
(H2O2) Listed

US. Rhode Island RTK

Hydrogen peroxide
(H2O2) Listed

Hydrogen peroxide
(H2O2) Listed

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Inventory Status: Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	Not in compliance with the inventory.
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

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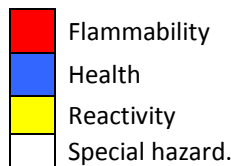
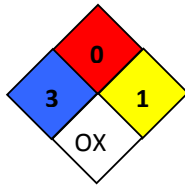
Health	*	3
Flammability		0
Physical hazards		1
PERSONAL PROTECTION		B
Health	*	3
Flammability		0
Physical hazards		1
PERSONAL PROTECTION		H

B - Safety Glasses & Gloves

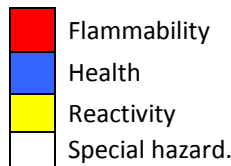
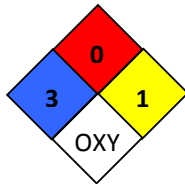
H - Goggles, Gloves, Apron & Vapor Respirator

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe
 OX: Oxidizing agent



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe
 OXY: Oxidizer

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Further information: No data available.

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For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

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