

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Ottalin Peracet
- **Article number:** 2191
- **Application of the substance / the preparation**
Activated concentrate for oxygen bleach and for laundry disinfection.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
- **Manufacturer:**
Chemische Fabrik Kreussler & Co. GmbH
Postfach 120454
D-65082 Wiesbaden
- **Supplier:**
Kreussler Inc., 6103 Johns Road Suit 7, Tampa, FL 33634,
Phone 813-884-1499, Fax 813-884-1599,
Internet: www.kreussler.com, e-mail: office-tampa@kreussler.com
- **Information department:**
Abteilung TQM
Herr Vogel
+49 (0) 611 9271-175
Kurt.Vogel@kreussler.com
- **Emergency telephone number:** +49 (0) 611 9271-0

2 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
7722-84-1	hydrogen peroxide solution	C R34; Xn R20/22; O R8	30-50%
64-19-7	acetic acid	C R35 R10	1.0-5.0%
79-21-0	peracetic acid	C R35; Xn R20/21/22; O R7; N R50 R10	1.0-5.0%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Corrosive
Causes burns.
.....
Harmful
Harmful by inhalation and if swallowed.
.....
Oxidizing
Contact with combustible material may cause fire.
 - **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
-
- **Label elements**
 - **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with directives on hazardous materials.

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

Trade name: Ottalin Peracet

(Contd. of page 1)

· **Code letter and hazard designation of product:**



C Corrosive
O Oxidizing

· **Hazard-determining components of labelling:**

hydrogen peroxide solution
peracetic acid

· **Risk phrases:**

Contact with combustible material may cause fire.
Harmful by inhalation and if swallowed.
Causes burns.

· **Safety phrases:**

Keep container tightly closed in a cool place.
Keep away from food, drink and animal feedingstuffs.
Keep away from contaminations, decomposition catalysts, alkalis, reduction agents and inflammable substances.
Do not breathe fumes/aerosol.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of soap and water.
This material and its container must be disposed of in a safe way.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 3
Reactivity = 0

The substance possesses oxidizing properties.

· **HMIS-ratings (scale 0 - 4)**



Health = 3
Fire = 3
Reactivity = 0

· **Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

4 First aid measures

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

Take affected persons into fresh air and keep quiet.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

(Contd. on page 3)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

Trade name: Ottalin Peracet

(Contd. of page 2)

- **Information for doctor:**
- **Danger** Danger of gastric perforation.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
Keep away from ignition sources
Keep people at a distance and stay upwind.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Do not seal receptacles gas-tight.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Provide acid-resistant floor.
- **Information about storage in one common storage facility:**
Store away from metals.
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

Trade name: Ottalin Peracet

(Contd. of page 3)

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

7722-84-1 hydrogen peroxide solution (30-50%)

PEL	1.4 mg/m ³ , 1 ppm
REL	1.4 mg/m ³ , 1 ppm
TLV	1.4 mg/m ³ , 1 ppm

64-19-7 acetic acid (1.0-5.0%)

PEL	25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm

- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device when high concentrations are present.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
Nitrile rubber, NBR
Butyl rubber, BR
- **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
- **Eye protection:**



Tightly sealed goggles

- **Body protection:**
Boots
Acid resistant protective clothing

9 Physical and chemical properties

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	Colorless
Odor:	Pungent

- **pH-value at 20°C (68 °F):** 1

- **Change in condition**

Melting point/Melting range:	<-15°C (<5 °F)
Boiling point/Boiling range:	ca. 100°C (ca. 212 °F)

(Contd. on page 5)

— USA —

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

Trade name: Ottalin Peracet

(Contd. of page 4)

· Flash point:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapor pressure:	Undetermined.
· Density at 20°C (68 °F):	1.13 g/cm ³ (9.43 lbs/gal)
· Solubility in / Miscibility with Water:	Fully miscible.
· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Oxygen

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

79-21-0 peracetic acid

Oral	LD-50	314 mg/kg (rat)
Dermal	LD-50	1912 mg/kg (rabbit)
Inhalative	LC-50/4 h	0.49 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Aquatic toxicity:**

79-21-0 peracetic acid

EC-50 3 h	5.1 mg/l (Belebtschlamm)
EC-50 48h	0.5-1.1 mg/l (Daphnia magna)
IC-50 120h	0.18 mg/l (Selenastrum capricornutum) (US-EPA-Methode)
LC-50 96h	1-2 mg/l (Oncorhynchus mykiss)
	11 mg/l (Pleuronectes platessa)
NOEC 21,0 d	0.05 mg/l (Daphnia magna) (OECD 211)

- **Persistence and degradability** No further relevant information available.
- **Other information:** abiotic degradation through hydrolysis and reduction.

(Contd. on page 6)

— USA —

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

Trade name: Ottalin Peracet

(Contd. of page 5)

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

The product may not be released into the environment without control.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN3149
· UN proper shipping name	
· ADR	3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
· IMDG, IATA	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
· Transport hazard class(es)	
· DOT, IMDG, IATA	
· Class	5.1 Oxidising substances.
· Label	5.1+8
· ADR	
· Class	5.1 Oxidizing substances
· Label	5.1+8
· Packing group	
· DOT, ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Oxidizing substances
· Danger code (Kemler):	58
· EMS Number:	F-H,S-Q
· Segregation groups	Peroxides
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

(Contd. on page 7)

— USA —

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

Trade name: Ottalin Peracet

(Contd. of page 6)

15 Regulatory information

· Sara

· Section 355 (extremely hazardous substances):

7722-84-1 | hydrogen peroxide solution

79-21-0 | peracetic acid

· Section 313 (Specific toxic chemical listings):

79-21-0 | peracetic acid

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

7722-84-1 | hydrogen peroxide solution

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

7722-84-1 | hydrogen peroxide solution

A3

· MAK (German Maximum Workplace Concentration)

7722-84-1 | hydrogen peroxide solution

4

79-21-0 | peracetic acid

3B

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Canadian Substances Listings:

· Canadian Domestic Substances List (DSL):

7722-84-1 | hydrogen peroxide solution

64-19-7 | acetic acid

79-21-0 | peracetic acid

· Canadian Ingredient disclosure list (limit 0.1%)

All ingredients are listed.

· Canadian Ingredient disclosure list (limit 1%)

7722-84-1 | hydrogen peroxide solution

64-19-7 | acetic acid

79-21-0 | peracetic acid

(Contd. on page 8)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/05/2012

Reviewed on 03/05/2012

Trade name: Ottalin Peracet

(Contd. of page 7)

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:

C Corrosive
O Oxidizing

· Hazard-determining components of labelling:

hydrogen peroxide solution
peracetic acid

· Risk phrases:

Contact with combustible material may cause fire.
Harmful by inhalation and if swallowed.
Causes burns.

· Safety phrases:

Keep container tightly closed in a cool place.
Keep away from food, drink and animal feedingstuffs.
Keep away from contaminations, decomposition catalysts, alkalis, reduction agents and inflammable substances.
Do not breathe fumes/aerosol.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of soap and water.
This material and its container must be disposed of in a safe way.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information of Items 4 through 8 and 10 through 12 partially refers not to the use and the proper application of the product (see Directions for Use/Product Information) but to the release of larger quantities in the case of accidents and irregularities.

The information exclusively describes the safety requirements of the product(s) and is based on the present state of our experience.

Non-ionic tensides can have varying characteristics and classifications despite same CAS-No.

· Department issuing MSDS:

Abteilung TQM
Herr Vogel
+49 (0) 611/9271-175

· Contact: Herr Vogel**· * Data compared to the previous version altered.**