

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 13.01.2016

Revision: 13.01.2016

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **OXY-D v.5**

Article number: 100401

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

**Application of the substance / the mixture:** Cleaning material/ Detergent

### 1.3 Details of the supplier of the Safety Data Sheet

#### Manufacturer/Supplier:

Theochem Laboratories  
7373 Rowlett Park Drive  
Tampa, FL 33610  
Phone: 813-237-6463



### 1.4 Emergency telephone number:

ChemTel Inc.  
+1 (800)255-3924, +1 (813)248-0585

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H360.

May form combustible dust concentrations in air. (USA and Canada GHS Only)

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Repr. 1B H360 May damage fertility or the unborn child.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS05 GHS08

**Signal word** Danger

#### Hazard-determining components of labelling:

disodium metasilicate pentahydrate

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## · Hazard statements

The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H360.

May form combustible dust concentrations in air. (USA and Canada GHS Only)

H314 Causes severe skin burns and eye damage.

H360 May damage fertility or the unborn child.

## · Precautionary statements

P260 Do not breathe dust.

P280 Wear protective gloves / eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Additional information:

May form combustible dust concentrations in air.

Restricted to professional users.

## · NFPA ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 0

## · HMIS-ratings (scale 0 - 4)



Health = \*3

Fire = 1

Reactivity = 0

## · 2.3 Other hazards

There are no other hazards not otherwise classified that have been identified.

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### · Dangerous components:

CAS: 497-19-8

EINECS: 207-838-8

Index number: 011-005-00-2

sodium carbonate

⚠ Eye Irrit. 2, H319

25-50%

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CAS: 10213-79-3 EINECS: 229-912-9	disodium metasilicate pentahydrate  Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318  STOT SE 3, H335	<10%
CAS: 7632-04-4 EINECS: 231-556-4 Index number: 005-017-00-7	sodium peroxoborate (containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm)  Ox. Sol. 2, H272  Repr. 1B, H360Df  Eye Dam. 1, H318  Acute Tox. 4, H302; STOT SE 3, H335	3-6%

## SVHC

7632-04-4	sodium peroxoborate (containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm)
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## Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

• **After inhalation:** Supply fresh air; consult doctor in case of complaints.

• **After skin contact:**

Brush off loose particles from skin.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

• **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

• **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Coughing

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Caustic effect on skin and mucous membranes.

• **Hazards:**

Causes serious eye damage.

May damage fertility or the unborn child.

### 4.3 Indication of any immediate medical attention and special treatment needed

Contains borates.

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## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**  
May form combustible dust concentrations in air.  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:** No further relevant information available.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Product forms slippery surface when combined with water.
- **6.2 Environmental precautions** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up**  
Pick up mechanically.  
Clean the affected area carefully; suitable cleaners are:  
Warm water
- **6.4 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.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Prevent formation of dust.  
Any unavoidable deposit of dust must be regularly removed.
- **Information about fire - and explosion protection:**  
Dust can combine with air to form an explosive mixture.  
Substance/product can reduce the ignition temperature of flammable substances.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.  
Protect from humidity and water.

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- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
This product is hygroscopic.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale dust / smoke / mist.  
Avoid contact with the eyes and skin.  
Pregnant women should strictly avoid inhalation or skin contact.
- **Respiratory protection:**  
For spills, respiratory protection may be advisable.  
Use suitable respiratory protective device when high concentrations are present.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment:**  
No further relevant information available.

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· Risk management measures: See Section 7 for additional information.

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · Appearance

Form:	Powder
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.

· pH-value at 20 °C (68 °F): 10,5 - 11,5

· Melting point/Melting range: Not determined.

· Boiling point/Boiling range: Not determined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Auto/Self-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

#### · Explosion limits

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure: Not applicable.

· Density at 20 °C (68 °F): 0,90 - 1,20 g/cm<sup>3</sup> (7,511 - 10,014 lbs/gal)

· Relative density: Not determined.

· Vapour density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water: Soluble.

· Partition coefficient (n-octanol/water): Not determined.

#### · Viscosity

Dynamic:	Not applicable.
Kinematic:	Not applicable.

· 9.2 Other information No further relevant information available.

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with strong acids and oxidising agents.  
As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.  
Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid**  
Store away from oxidising agents.  
Moisture.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Sulphur oxides (SOx)

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation:**  
Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer):</b>
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None of the ingredients are listed.
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· <b>NTP (National Toxicology Program):</b>
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None of the ingredients are listed.
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· <b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b>
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None of the ingredients are listed.
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- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:**  
May damage fertility or the unborn child.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

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## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** After neutralisation a reduction of the harming action may be recognised.
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- |  |               |
|--|---------------|
| · <b>14.1 UN-Number</b>                  |               |
| · DOT, ADR, IMDG, IATA                   | Not Regulated |
| · <b>14.2 UN proper shipping name</b>    |               |
| · DOT, ADR, IMDG, IATA                   | Not Regulated |
| · <b>14.3 Transport hazard class(es)</b> |               |
| · DOT, ADR, IMDG, IATA                   |               |
| · Class                                  | Not Regulated |

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- |  |                 |
|--|-----------------|
| <b>· 14.4 Packing group</b>  |                 |
| <b>· DOT, ADR, IMDG, IATA</b>  | Not Regulated   |
| <b>· 14.5 Environmental hazards:</b>   |                 |
| <b>· Marine pollutant:</b>   | No              |
| <b>· 14.6 Special precautions for user</b>                                       | Not applicable. |
| <b>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> |                 |
|  | Not applicable. |

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

<b>· Section 355 (extremely hazardous substances):</b>
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None of the ingredients are listed.
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<b>· Section 313 (Specific toxic chemical listings):</b>
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None of the ingredients are listed.
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<b>· TSCA (Toxic Substances Control Act):</b>
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All ingredients are listed.
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<b>· Proposition 65 (California):</b>
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<b>· Chemicals known to cause cancer:</b>
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None of the ingredients are listed.
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<b>· Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients are listed.
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<b>· Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients are listed.
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<b>· Chemicals known to cause developmental toxicity:</b>
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None of the ingredients are listed.
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<b>· Carcinogenic Categories</b>
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<b>· EPA (Environmental Protection Agency)</b>
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7632-04-4	sodium peroxoborate (containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm)	I (oral)
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<b>· IARC (International Agency for Research on Cancer)</b>
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None of the ingredients are listed.
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<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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None of the ingredients are listed.
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· **Canada**· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0,1%)**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

497-19-8 | sodium carbonate

· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 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.

· **Relevant phrases**

H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360Df May damage the unborn child. Suspected of damaging fertility.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Sol. 2: Oxidising Solids, Hazard Category 2

Met. Corr. 1: Corrosive to metals, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Repr. 1B: Reproductive toxicity, Hazard Category 1B  
Repr. 1B: Reproductive toxicity, Hazard Category 1B  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

**Sources**

Website, European Chemicals Agency (echa.europa.eu)  
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)  
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

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