

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision Date 24-Sep-2025 Version 2

# 1. Identification

**Product identifier** 

Product Name Optimum Red 3.35 oz Tube

Other means of identification

Product Code 27038

Synonyms CAN Item Number 59423

Recommended use of the chemical and restrictions on use

Recommended Use Sealant

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer Address

| STW Parmeters | ITW Pa

ITW Permatex, Inc. ITW Permatex Canada 6875 Parkland Blvd. ITW Permatex Canada 101-2360 Bristol Circle

Solon, Ohio 44139 USA Oakville, ON Canada L6H 6M5 Telephone: 1-87-Permatex Telephone: (800) 924-6994

(866) 732-9502

E-mail address mail@permatex.com

Emergency telephone number

Company Phone Number 866-732-9502

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924

International Emergency: 00+1+ 813-248-0585

Contract Number: MIS0003453

**24-hour emergency phone number** No information available

# 2. Hazard(s) identification

## Classification

This product is not considered hazardous by either the US OSHA Hazard Communication Standard 2024, or Canada Hazardous Products Act (HPA) and Hazardous Products Regulation (HPR), as amended.

## Label elements

#### **Hazard statements**

This product is not considered hazardous by either the US OSHA Hazard Communication Standard 2024, or Canada Hazardous Products Act (HPA) and Hazardous Products Regulation (HPR), as amended.

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6.9725 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

23.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

30.0725 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

30.0725 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

30.0725 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### Other Information

No information available.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

## <u>Mixture</u>

**Synonyms** CAN Item Number 59423.

| Chemical name | CAS No.   | Weight-% | Information Review | Date HMIRA filed and date exemption granted (if applicable) |
|---------------|-----------|----------|--------------------|---|
| IRON OXIDE    | 1309-37-1 | 10-30%   | -                  | -   |

# 4. First-aid measures

## **Description of first aid measures**

**Inhalation** Remove to fresh air.

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. Fire-fighting measures

 surrounding environment.

Small Fire In case of fire, use water spray, foam, dry chemical, or CO2. Large Fire In case of fire, use water spray, foam, dry chemical, or CO2.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Hazardous combustion products** No information available.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

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Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls/personal protection

Control Parameters
Exposure Limits

| Chemical name | ACGIH TLV               | OSHA PEL                            | NIOSH                                  |
|---------------|-------------------------|-------------------------------------|--|
| IRON OXIDE    | TWA: 5 mg/m³ respirable | TWA: 10 mg/m <sup>3</sup> fume      | TWA: 5 mg/m <sup>3</sup> ; Fe dust and |
| 1309-37-1     | particulate matter      | TWA: 15 mg/m³ total dust            | fume                                   |
|               |                         | TWA: 5 mg/m <sup>3</sup> respirable | IDLH: 2500 mg/m <sup>3</sup> Fe dust   |
|               |                         | fraction                            | and fume                               |
|               |                         | (vacated) TWA: 10 mg/m <sup>3</sup> |  |
|               |                         | fume and total dust Iron oxide      |  |
|               |                         | (vacated) TWA: 5 mg/m <sup>3</sup>  |  |
|               |                         | respirable fraction regulated       |  |

|               |                            | •                                    |                            |                                   |
|---------------|----------------------------|--------------------------------------|----------------------------|-----------------------------------|
| Chemical name | Alberta                    | British Columbia                     | Ontario                    | Quebec                            |
| IRON OXIDE    | TWA: 5 mg/m <sup>3</sup> ; | TWA: 10 mg/m <sup>3</sup> ; total    | TWA: 5 mg/m <sup>3</sup> ; | TWAEV: 5 mg/m <sup>3</sup> ; dust |
| 1309-37-1     | respirable                 | particulate                          | respirable particulate     | and fume                          |
|               |                            | TWA: 3 mg/m <sup>3</sup> ;           | matter                     |                                   |
|               |                            | respirable particulate               |                            |                                   |
|               |                            | ITWA: 5 mg/m <sup>3</sup> : dust and |                            |                                   |

fume STEL: 10 mg/m³; fume

under Rouge

| Chemical name | Manitoba  | New Brunswick                        | Newfoundland and<br>Labrador                      | Nova Scotia                                       |
|---------------|---|--------------------------------------|---|---|
| IRON OXIDE    | TWA: 5 mg/m³;<br>respirable particulate<br>matter | TWA: 5 mg/m³;<br>respirable fraction | TWA: 5 mg/m³;<br>respirable particulate<br>matter | TWA: 5 mg/m³;<br>respirable particulate<br>matter |

| Chemical name | Nunavut                           | Prince Edward Island       | Saskatchewan                      | Yukon                             |
|---------------|-----------------------------------|----------------------------|-----------------------------------|-----------------------------------|
| IRON OXIDE    | TWA: 5 mg/m3; dust and            | TWA: 5 mg/m <sup>3</sup> ; | TWA: 5 mg/m3; dust and            | TWA: 5 mg/m <sup>3</sup> ; fume   |
|               | fume                              | respirable particulate     | fume                              | TWA: 30 mppcf;                    |
|               | TWA: 10 mg/m <sup>3</sup> ;       | matter                     | TWA: 10 mg/m <sup>3</sup> ;       | TWA: 10 mg/m <sup>3</sup> ;       |
|               | STEL: 10 mg/m <sup>3</sup> ; dust |                            | STEL: 10 mg/m <sup>3</sup> ; dust | STEL: 10 mg/m <sup>3</sup> ; fume |
|               | and fume                          |                            | and fume                          | STEL: 20 mg/m <sup>3</sup> ;      |
|               | STEL: 20 mg/m <sup>3</sup> ;      |                            | STEL: 20 mg/m <sup>3</sup> ;      | -                                 |

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Appropriate eye/face protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction.

Hand protection Appropriate hand protection should be selected and used according to the chemical nature,

hazards and use of this product and safety requirements of the local jurisdiction.

**Skin and body protection** Appropriate skin and body protection should be selected and used according to the

chemical nature, hazards and use of this product and safety requirements of the local

jurisdiction.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be

required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

Thermal hazards No information available.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

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Physical state Paste / Gel Liquid

Appearance Paste
Color Red
Odor Mild

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available
Melting point / freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
No data available
No data available
No data available
No data available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No data available
No data available
No data available

Relative density 1.16

Water solubility
Solubility(ies)
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No Data Available

**Particle characteristics** 

Particle Size No data available Particle Size Distribution No data available

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information availableMolecular weightNo information available

VOC content < 1%

DensityNo information availableBulk densityNo information available

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

**Hazardous polymerization** No information available.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity .

**Numerical measures of toxicity** 

# The following ATE values have been calculated for the mixture

 ATEmix (oral)
 32,051.30 mg/kg

 ATEmix (dermal)
 22,157.30 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

 ATEmix (inhalation-dust/mist)
 99,999.00 mg/l

6.9725 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

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**Component Information** 

| Chemical name | Oral LD50           | Dermal LD50 | Inhalation LC50 |
|---------------|---------------------|-------------|-----------------|
| IRON OXIDE    | > 10000 mg/kg (Rat) | -           | -               |
| 1309-37-1     |                     |             |                 |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH                    | IARC                 | NTP | OSHA |
|---------------|--------------------------|----------------------|-----|------|
| IRON OXIDE    | A4 - Not Classifiable as | Group 3 -            | -   | -    |
| 1309-37-1     | a Human Carcinogen       | Unclassifiable as to |     |      |
|               | -                        | carcinogenicity in   |     |      |
|               |                          | humans               |     |      |

## Legend

#### IARC (International Agency for Research on Cancer)

Group 3 - Not classifiable as to carcinogenicity in humans

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

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Aspiration hazard No information available.

Other adverse effects No information available.

Neurological effects No information available.

# 12. Ecological information

# **Ecotoxicity**

| Chemical name | Algae/aquatic plants | Fish               | Toxicity to    | Crustacea |
|---------------|----------------------|--------------------|----------------|-----------|
|               |                      |                    | microorganisms |           |
| IRON OXIDE    | -                    | LC50: =100000mg/L  | -              | -         |
| 1309-37-1     |                      | (96h, Danio rerio) |                |           |

Persistence and degradability No information available.

Bioaccumulation

**Component Information** 

Other adverse effects No information available.

# 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**US EPA Waste Number**Waste designations and classifications should be determined by the end user based on the

application for which the product was used.

# 14. Transport information

DOTNot regulatedTDGNot regulatedMEXNot regulated

IMDG Not regulated

Not regulated

# 15. Regulatory information

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

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### **International Inventories**

**TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Does not comply **ENCS** Does not comply Complies **IECSC** Does not comply KECI Complies **PICCS AICS** Complies **NZIoC** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

#### **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| IRON OXIDE    | X          | -             | X            |
| 1309-37-1     |            |               |              |

#### U.S. EPA Label Information

# 16. Other information

NFPA Health hazards 0 Flammability 0 Instability 0 Special hazards - Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

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## Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate

LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

+ Sensitizers

#### Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

United Nations World Health Organization (WHO)

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**Revision Note**No information available.

**Disclaimer** 

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