

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME CALAMINE, USP

PRODUCT CODE 0066

SUPPLIER MEDISCA Inc.

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MEDISCA Pharmaceutique Inc.

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EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PICTOGRAM

Specific Target Organ Toxicity - Single Exposure (Category 3) - respiratory



SIGNAL WORD

HAZARD STATEMENT(S)

Warning

May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects.

Repeated exposure may cause skin dryness or cracking.

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

PRECAUTIONARY STATEMENT(S)

Prevention Avoid breathing dust, fume, gas, mist, vapors and spray.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment

Response IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison

center or doctor if Get medical help if you feel unwell

Storage Store in a well-ventilated place.

Keep container tightly closed.

Store locked up.



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Disposal Dispose of contents and/or container in accordance with local regulations.

Health Hazard 1 Flammability 0

Reactivity 0 Personal Protection

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME Not applicable

HMIS CLASSIFICATION

BOTANICAL NAME Not applicable

SYNONYM Not applicable

CHEMICAL FORMULA Not applicable
CHEMICAL FAMILY Not applicable

CAS NUMBER 8011-96-9

ALTERNATE CAS NUMBER Not applicable

MOLECULAR WEIGHT Not available

COMPOSITIONCHEMICAL NAMECAS NUMBEREC NUMBER% BY WEIGHTIRON OXIDE1309-37-1215-168-2<1</td>

ZINC OXIDE 1309-37-1 213-100-2 1 210-100-2

ZINC OXIDE 1314-13-2 215-222-5 ~100

There are no additional ingredients present which, within the current knowledge of the supplier and in the

concentrations applicable, are classified as health hazards and hence require reporting in this section.

NOTES Iron oxide (Fe2O3), mixture with zinc oxide.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

medical aid.

IN CASE OF SKIN CONTACT

Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician

MEDICAL ATTENTION AND SPECIAL

TREATMENT

Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

Not applicable

FLAMMABLE PROPERTIES

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

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SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Small fire: dry chemical, CO₂ or water spray. **Large fire:** dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without

On land, sweep or shovel into suitable containers. Minimize generation of dust.

risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean

the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONSSee 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

PRECAUTIONS FOR SAFE HANDLING Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash

thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use

appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in unlabeled containers. Containers that have been opened

accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid

environmental contamination.

STORAGE CONDITIONS Store in original container, tightly sealed, protected from direct sunlight and moisture.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: IRON OXIDE CAS #: 1309-37-1

	Country	try Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes	
		ppm	mg/m³	ppm	mg/m³					
OSHA	USA	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A	
ACGIH	USA	N/L	5	N/L	N/L	N/L	N/L	N/A	N/A	
NIOSH	USA	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A	
WEEL	USA	N/L	N/L	N/L	N/L	2500 mg/m³	N/L	N/A	N/A	
LICIO	Australia	N/L	N/L	N/L	N/L		N/L	N/A	N/A	
HSIS	Australia	IN/L	IN/L	IN/L	IN/L	IN/L	IN/L	IN/A	IN/A	
HSE	UK	N/L	5	N/L	N/L	N/L	N/L	N/A	N/A	



GESTIS N/L*	N/L	N/L	N/L	N/L	N/L	N/L	N/A	*Not applicable, listed only
								as fume or respirable dust

Chemical Name: ZINC OXIDE CAS #: 1314-13-2

	Country	Limit value-8 hours		Limit value-Short Term		IDLH REL		Advisory	Notes	
		ppm	mg/m³	ppm	mg/m³					
OSHA	USA	N/L	5	N/L	N/L	N/L	N/L	N/A	N/A	
ACGIH	USA	N/L	2	N/L	10	N/L	N/L	N/A	N/A	
NIOSH	USA	N/L	5	N/L	10	500 mg/m ³	N/L	N/A	N/A	
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
HSIS	Australia	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A	
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
GESTIS	Belgium	N/L	2 (1)	N/L	10 (1)(2)	N/L	N/L	N/A	(1) Respirable fraction (2) 15 minutes average value	
GESTIS	Finland	N/L	2	N/L	10 (1)	N/L	N/L	N/A	(1) 15 minutes average value	
GESTIS	Latvia	N/L	0.5	N/L	N/L	N/L	N/L	N/A	N/A	

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3

PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

NOTES Inhalation human: lowest published concentration: 600 mg/m³: cough dyspnea

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid

DESCRIPTION Pink, odorless, fine powder.

SOLUBILITY Soluble in mineral acids; insoluble in water.

ODOR Odorless

FLAMMABILITY May be combustible at high temperature

AUTO-IGNITION Not available BOILING POINT Sublimes DECOMPOSITION Not available TEMPERATURE TEMPERATURE

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EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available
log P (OCTANOL-WATER)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	1975°C, 3587°F
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	pH	6.9 - 7.4
RELATIVE DENSITY (WATER = 1)	Not available	SPECIFIC GRAVITY	5.6	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	0 mmHg (approx)	VISCOSITY	Not available

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY Not established

CHEMICAL STABILITY

INCOMPATIBLE MATERIALS

HAZARDOUS DECOMPOSITION

PRODUCTS

HAZARDOUS POLYMERIZATION Will not occur

POSSIBLITY OF HAZARDOUS

REACTION

CONDITIONS TO AVOID

Stable under recommended storage conditions

Strong oxidants

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

Not established

Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY Oral: Rat: LD50: (mg/kg): Not available

Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Based on available data, the classification criteria are not met.

Prolonged or repeated contact may dry skin and cause irritation.

SERIOUS EYE DAMAGE/EYE Based on available data, the classification criteria are not met.

IRRITATION Zinc oxide: Rabbit: 500 mg/24 hr: mild

RESPIRATORY SENSITIZATION Based on available data, the classification criteria are not met.

SKIN SENSITIZATION Based on available data, the classification criteria are not met.

GERM CELL MUTAGENICITY Due to lack of data the classification is not possible.

CARCINOGENICITY **OSHA** No component of this product, present at ≥0.1%, is listed.

NTP No component of this product, present at ≥0.1%, is listed.

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IARC No component of this product, present at ≥0.1% has been evaluated.

California This product does not contain any chemicals known to the State of California to cause

Proposition 65 cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY

INFORMATION

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

CLASSIFICATION: D; not classifiable as to human carcinogenicity. BASIS FOR CLASSIFICATION: Based on inadequate evidence in humans and animals. HUMAN CARCINOGENICITY DATA: Inadequate. ANIMAL

CARCINOGENICITY DATA: Inadequate. (Zinc and compounds)

REPRODUCTIVE TOXICITY

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

May cause respiratory irritation

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

ASPIRATION HAZARDS

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

SIGNS AND SYMPTOMS OF

EXPOSURE

ROUTES OF EXPOSURE:

Dermal; the substance can be absorbed into the body by inhalation of fume.

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

Health Effects: Acute systemic toxicity (Metal fume fever)

May cause a flu-like illness called metal fume fever. Severe over exposure may result in bronchitis or pneumonia with a bluish tint to the skin. Ingestion of large amounts can cause vomiting and gastro-enteritis.

Also may cause conjunctivitis.

POTENTIAL HEALTH EFFECTS

Inhalation Inhalation of vapors or mists in high concentration may cause irritation of respiratory. Sore

throat. Fumes: Metallic taste. Headache. Fever. Chest tightness. Shortness of breath.

Weakness. Muscle pain.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea

Skin No acute symptoms expected. May cause skin irritation

Eyes May cause eye irritation. Redness

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EC50: 48 Hr: Crustacea: (mg/L): Not available

LC50: 96 Hr: Fish: (mg/L): Not available

EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

PERSISTENCE AND DEGRADABILITY Not available

BIOACCUMULATIVE POTENTIAL

Not available

MOBILITY IN SOIL

Insoluble in water.

OTHER ADVERSE EFFECTS

Very toxic to aquatic life with long lasting effects

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

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SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME Not dangerous good

UN NUMBER Not applicable
CLASS Not applicable
PACKING GROUP Not applicable

AUSTRALIA

HAZCHEM Not applicable

EU

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

IBC CODE

Not Listed

ENVIRONMENTAL HAZARDS Not available SPECIAL SHIPPING INFORMATION Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
ZINC OXIDE 1314-13-2	N/L	N/L	N/L	N/L	X	Χ	X	N/L
IRON OXIDE 1309-37-1	N/L	N/L	N/L	N/L	X	X	X	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
ZINC OXIDE 1314-13-2	N/L	N/L	N/L	N/L	N/L	N/L
IRON OXIDE 1309-37-1	N/L	N/L	N/L	Listed	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
ZINC OXIDE 1314-13-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L
IRON OXIDE 1309-37-1	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.



SUBJECT TO INTERNATIONAL AGREEMENT

Not applicable

SECTION 16: OTHER INFORMATION

REFERENCES

ABBREVIATIONS AND ACRONYMS

Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION

01/2023

SUPERSEDES

04/2020

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.