

Safety Data Sheet
acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

1 Identification

- **Product identifier**
- **Trade name: Paracure 811**
- **Relevant identified uses of the substance or mixture.**
Dispersion
Curative
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Tiarco LLC
SRS Division
1010 Vista Drive
Dalton, GA 30721
- **Information department: Global Regulatory Department.**
- **Emergency telephone number:**
(Chemtrec): (800) 424-9300 (Chemtrec International): (703) 527-3887
Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (ehs@trcc.com)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 1)

- **Signal word** *Danger*

- **Hazard statements**

Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.

- **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 0
Physical Hazard = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** *Not applicable.*

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 2)

· **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture - Vulcanization Ingredients

- **Hazardous components:**

1314-13-2	zinc oxide	10-25%
	Trade Secret	5-20%
	Accelerator (Zinc Compound)	2.5-10%
14324-55-1	zinc bis(diethyldithiocarbamate)	2.5-10%
68610-51-5	Phenol, 4-Methyl-, Reaction Products With Dicyclopentadiene And Isobutylene.	2.5-10%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Seek medical treatment.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:** 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).
Dispose of contaminated material as waste in accordance with federal state and local regulations.
Ensure adequate ventilation.

(Contd. on page 4)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 3)

- **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.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

1314-13-2	zinc oxide	10 mg/m ³
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· **PAC-2:**

1314-13-2	zinc oxide	15 mg/m ³
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· **PAC-3:**

1314-13-2	zinc oxide	2,500 mg/m ³
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7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Avoid prolonged or repeated contact with skin.
Avoid contact with eyes.
Wash thoroughly after handling.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location away from direct heat.
Store above 40F.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect product from freezing.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1314-13-2 zinc oxide

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction and fume
REL	Short-term value: 10** mg/m ³ Long-term value: 5 mg/m ³ Ceiling limit value: 15* mg/m ³ *dust only **fume

(Contd. on page 5)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 4)

TLV Short-term value: 10* mg/m³
 Long-term value: 2* mg/m³
 *as respirable fraction

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment (see listings below)**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 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:**
 Not necessary if room is well-ventilated.
 In the absence of adequate ventilation, use NIOSH-certified respiratory protection when chemical exposure is excessive or above an established exposure limit. Comply with OSHA 29 CFR 1910.134.
- **Protection of hands:**



Protective gloves

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

- **Material of gloves**
 Nitrile rubber, NBR
 Chloroprene rubber, CR
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
 Safety glasses with side shields.



Tightly sealed goggles

- **Body protection:**
 Protective work clothing
 Emergency showers and eye wash stations should be available.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Color:	Whitish
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **pH-value at 20 °C (68 °F):** 10

(Contd. on page 6)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 5)

· Change in condition	
Melting point:	Undetermined.
· Boiling point: · Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	260 °C (500 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Flammable limits:	
Lower:	Not determined
Upper:	Not determined
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Specific gravity at 20 °C (68 °F):	1.3 g/cm ³ (10.8485 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
Water:	45.0 %
VOC (Per EPA 24)	Not Available GMS/L
Solids content:	55.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Reacts with oxidizing agents.
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Nitrogen oxides
 - Sulfur oxides (SO_x)
 - Hydrocarbons

USA

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 6)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

14324-55-1 zinc bis(diethylthiocarbamate)

Oral	LD50	3,530 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** Skin Contact - Sensitization possible through skin contact.

- **Additional toxicological information:**

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

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

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

USA

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

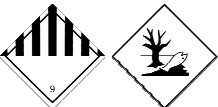
Trade name: Paracure 811

(Contd. of page 7)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN3082
- **UN proper shipping name**
- **DOT** Environmentally hazardous substances, liquid, n.o.s.
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- **Transport hazard class(es)**
- **DOT, IMDG, IATA**
- 
- **Class** 9 Miscellaneous dangerous substances and articles
- **Label** 9
- **Packing group**
- **DOT, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** Yes (DOT)
Symbol (fish and tree)
- **Special marking (ADR):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user** Warning: Miscellaneous dangerous substances and articles
- **EMS Number:** F-A,S-F
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT**
- **Remarks:** Special marking with the symbol (fish and tree).
- **UN "Model Regulation":** UN3082, Environmentally hazardous substances, liquid, n.o.s., 9, III

USA

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 8)

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1314-13-2	zinc oxide
	Accelerator (Zinc Compound)
14324-55-1	zinc bis(diethylthiocarbamate)

· TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65 Please contact supplier of this product regarding Proposition 65 information.

· (DSL) Canada Domestic Substance List

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

· New Jersey Right-to-Know List:

1314-13-2	zinc oxide
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· New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

· Pennsylvania Right-to-Know List:

1314-13-2	zinc oxide
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· Pennsylvania Special Hazardous Substance List:

1314-13-2	zinc oxide	E
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· Cancerogenity categories

· EPA (Environmental Protection Agency)

1314-13-2	zinc oxide	D, I, II
14324-55-1	zinc bis(diethylthiocarbamate)	D, I, II

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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

None of the ingredients is listed.

· National regulations:

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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

16 Other information

Although the information and recommendations set forth in this SDS [SDS] are presented in good faith and are believed to be correct as of the date of this SDS [SDS], the supplier/manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 06/20/2019

Revision Number 1

Revision Date 06/20/2019

Trade name: Paracure 811

(Contd. of page 9)

using it will make their own determination as to the suitability for their purpose prior to use. In no event will the supplier/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS [SDS].

· **Department issuing SDS:** Global Regulatory Department.

· **Creation Date:** 06/20/2019

· **Date of preparation / last revision** 06/20/2019 / -

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

USA