EU

Safety Data Sheet

Castaldo® White Label® Jewelry Molding Rubber

SDS Revision Date: **12/18/2014**

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

1.1. Product identifier

Product Identity	Castaldo® White Label® Jewelry Molding Rubber
Alternate Names	Castaldo® White Label® Jewelry Molding Rubber

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	F. E. Knight Inc. 120 Constitution Blvd., Franklin, MA 02038. USA
Emergency	
24 hour Emergency Telephone No.	Chem-Tel: 1-800-255-3924 or 617-969-5399
Customer Service: F. E. Knight Inc.	508-520-1666

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

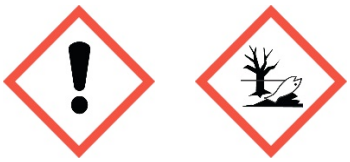
Skin Sens. 1;H317	May cause an allergic skin reaction.
Aquatic Acute 1;H400	Very toxic to aquatic life.
Aquatic Chronic 2;H411	Toxic to aquatic life with long lasting effects.

Classification according to 67/548/EEC or 1999/45/EC.

Xi	Irritant.
N	Dangerous for the environment.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.
According to Regulation (EC) No 1272/2008



Warning

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P313 Get medical advice / attention.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

[Storage]:

No GHS storage statements

[Disposal]:

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

3. Composition/information on ingredients

If the product contains substances that present a health hazard within the meaning of the Dangerous Substances Directive 67/548/EC, or have occupational exposure limits detailed in EH40, these substances are listed below.

Ingredient/Chemical Designations	Weight %	67/548/EEC Classification*	EC No. 1272/2008 Classification*	Notes
Octadecanoic acid, zinc salt **CAS Number: 0000557-05-1** **EC No.** **Index No.:**	**1.0 - 10**		**----**	**[1][2]**
Zinc oxide **CAS Number: 0001314-13-2** **EC No. 215-222-5** **Index No.: 030-013-00-7**	**1.0 - 10**	**N;R50-53**	**Aquatic Acute 1;H400** **Aquatic Chronic 1;H410**	**[1][2]**
Zinc Sulfide **CAS Number: 0001314-98-3** **EC No.** **Index No.:**	**1.0 - 10**		**----**	**[1]**
Thioperoxydicarbonic diamide, tetramethyl- **CAS Number: 0000137-26-8** **EC No. 205-286-2** **Index No.: 006-005-00-4**	**1.0 - 10**	**Xn;R20/22-48/22 R43** **Xi;R36/38 N;R50-53**	**Acute Tox. 4;H332** **Acute Tox. 4;H302** **STOT RE 2;H373** **Eye Irrit. 2;H319** **Skin Irrit. 2;H315** **Skin Sens. 1;H317** **Aquatic Acute 1;H400** **Aquatic Chronic 1;H410**	**[1][2]**
Mercaptobenzothiazole **CAS Number: 0000149-30-4** **EC No. 205-736-8** **Index No.: 613-108-00-3**	**0.10 - 1.0**	**R43 N;R50-53**	**Skin Sens. 1;H317** **Aquatic Acute 1;H400** **Aquatic Chronic 1;H410**	**[1]**

^CLP 31 Reference EC No. 1272/2008 1.1.3.1. Notes relating to the identification, classification and labelling of substances (Table 3.1).
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion Do not induce vomiting, give plenty of water. Seek medical attention.

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

Overview No specific symptom data available.
See section 2 for further details.

Skin May cause an allergic skin reaction. Causes mild skin irritation. (Not adopted by US OSHA)

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2, powder, water spray.
Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: TMTD may react with nitrosating agents to form nitrosamines - suspect carcinogens.
• Oxides of COx, NOx and SOx.
• Unburned hydrocarbons, trace oxides, acetic acid, oxides of Zinc, undetermined aliphatic fragments and fumes of components may exist during decomposition.
Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Means of Extinction:
If exposed to flames, acrid fumes and black smoke are emitted. Use water, dry chemical, carbon dioxide, foam, etc.
Recommended Fire Fighting Protective Gear:
A self-contained breathing apparatus (SCBA) in positive pressure mode and full fire fighting protective bear should be worn when fighting fires involving rubber.
Additional Comments/Information:
No explosion hazard. Product will not self-ignite but will burn if exposed to flame. As with any organic material and depending upon conditions, product may emit Carbon Dioxide and/or Carbon Monoxide.
ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Sweep up by mechanical means. Brooms are a recommended tool.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

No precautions necessary. However, it is recommended that it is stored in a cool, dry environment in original closed packaging. Individuals handling the material should follow recommendations in Section 8. Good housekeeping and hygienic practices should be observed. Avoid heat, sparks and/or flames. Product may cure if exposed to heat. Product may freeze if exposed to cold.
Avoid storage near strong acids and/or oxidizers.
See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000137-26-8	Thioperoxydicarbonic diamide, tetramethyl-	OSHA	TWA 5 mg/m3
		ACGIH	TWA: 1 mg/m3S Revised 2008; 2010,
		NIOSH	TWA 5 mg/m3
		Supplier	No Established Limit
0000149-30-4	Mercaptobenzothiazole	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000557-05-1	Octadecanoic acid, zinc salt	OSHA	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		ACGIH	TWA: 10 mg/m3STEL: 20 mg/m3
		NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		Supplier	No Established Limit
0001314-13-2	Zinc oxide	OSHA	TWA 5 mg/m3 (fume) TWA 15 mg/m3 (total dust) TWA 5 mg/m3 (resp dust)
		ACGIH	TWA: 2 mg/m3STEL: 10 mg/m3 A1, 1, Revised 2003,
		NIOSH	No Established Limit
		Supplier	No Established Limit
0001314-98-3	Zinc Sulfide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000137-26-8	Thioperoxydicarbonic diamide, tetramethyl-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0000149-30-4	Mercaptobenzothiazole	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000557-05-1	Octadecanoic acid, zinc salt	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001314-13-2	Zinc oxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001314-98-3	Zinc Sulfide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory None needed

Eyes Protective safety glasses recommended.

Skin Wear overalls to keep skin contact to a minimum. None needed unless the handler is sensitive to the finished product. In this case, cloth gloves should be worn.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Observe general safety regulations for rubber processing and compounding. As conditions or methods of use are beyond the control of the Manufacturer. No responsibility is assumed. Liability is expressly disclaimed for any use of this product.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Tan Solid, approximately 0.125" thick
Odor	smoky rubber
Odor threshold	Not Measured
pH	NA
Melting point / freezing point	NA
Initial boiling point and boiling range	NA
Flash Point	NA

Evaporation rate (Ether = 1)	NA
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** NA
	Upper Explosive Limit: NA
Vapor pressure (Pa)	NA
Vapor Density	NA
Specific Gravity	Approximately 1.5
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity (cSt)	NA
VOC %	NA
Water Reactive	No

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

TMTD may react with nitrosating agents to form nitrosamines - suspect carcinogens.
• Oxides of COx, NOx and SOx.
• Unburned hydrocarbons, trace oxides, acetic acid, oxides of Zinc, undetermined aliphatic fragments and fumes of components may exist during decomposition.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Octadecanoic acid, zinc salt - (557-05-1)	No data available	No data available	No data available	No data available	No data available
Zinc oxide - (1314-13-2)	5,000.00, Rat - Category: 5	No data available	No data available	2.50, Mouse - Category: 4	No data available
Zinc Sulfide - (1314-98-3)	No data available	No data available	No data available	No data available	No data available
Thioperoxydicarbonic diamide, tetramethyl- - (137-26-8)	No data available	No data available	No data available	No data available	No data available
Mercaptobenzothiazole - (149-30-4)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation. (Not adopted by US OSHA)
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l

Octadecanoic acid, zinc salt - (557-05-1)	Not Available	Not Available	Not Available
Zinc oxide - (1314-13-2)	1.10, Oncorhynchus mykiss	0.098, Daphnia magna	0.042 (72 hr), Pseudokirchneriella subcapitata
Zinc Sulfide - (1314-98-3)	Not Available	Not Available	Not Available
Thioperoxydicarbonic diamide, tetramethyl- - (137-26-8)	Not Available	Not Available	Not Available
Mercaptobenzothiazole - (149-30-4)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself. Easily separable from water by use of filtration.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	**DOT Hazard Class:** Not Applicable **DOT Label:** ---	**IMDG:** Not Applicable **Sub Class:** Not Applicable	**Air Class:** Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: Yes (Thioperoxydicarbonic diamide, tetramethyl-)

14.6. Special precautions for user

No further information

15. Regulatory information

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

EU Legislation

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

National Legislation: None noted

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R20/22 Harmful by inhalation and if swallowed.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: The information contained herein is considered accurate; however, F .E. Knight, Inc. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.

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