SAFETY DATA SHEET



ISO MAINTAMER Two-Step Straightening System - Step 1

Section 1. Identification

Product Name : ISO MAINTAMER Two-Step Straightening System - Step 1

Other means of identification

: Not available.

Recommended use

: Hair Care Product

Restrictions on use

: Use only as directed on the product label.

Manufacturer

: Zotos International, INC 100 Tokeneke Road, Darien, CT 06820 www.zotos.com

Validation date

: 5/14/2015.

In case of emergency

(800) 584-8038 [24 Hours]

Telephone number

: (203) 656-7859 [8:30 a.m. - 5:00 p.m.]

Transportation Emergency

Contact: CHEMTREC 1-800-424-9300 [US/Canada 24 Hours]

Product type

: Liquid.

Section 2. Hazards identification

Emergency overview

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 91.6%

GHS label elements

Hazard pictograms



Signal word

Danger

Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention

: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

Response

: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

ISO MAINTAMER Two-Step Straightening System - Step 1

Section 2. Hazards identification

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise

classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Name | % | CAS number |
|--------------------------------|------|------------|
| Siloxanes and Silicones, di-Me | 4.00 | 63148-62-9 |
| hexadecan-1-ol | 3.00 | 36653-82-4 |
| Octadecan-1-ol, ethoxylated | 2.25 | 9005-00-9 |
| 2-aminoethanol | 1.00 | 141-43-5 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

Skin contact

: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

Get medical attention if you feel unwell.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if you feel unwell.

: Wash contaminated skin with soap and water.

Ingestion

: Get medical attention immediately.

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

: No specific treatment.

Indication of immediate medical attention and special treatment needed, if necessary

Protection of first-aiders

: Use suitable protective equipment (section 8). Avoid exposure.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Dilute with water and mop up if water-soluble.

Large spill

: Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up.

Section 8. Exposure controls/personal protection

United States

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|-----------------|---|
| 2-aminoethanol | ACGIH TLV (United States, 4/2014). TWA: 3 ppm 8 hours. TWA: 7.5 mg/m³ 8 hours. STEL: 6 ppm 15 minutes. STEL: 15 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 3 ppm 8 hours. TWA: 8 mg/m³ 8 hours. STEL: 6 ppm 15 minutes. STEL: 15 mg/m³ 15 minutes. NIOSH REL (United States, 10/2013). TWA: 3 ppm 10 hours. TWA: 8 mg/m³ 10 hours. STEL: 6 ppm 15 minutes. STEL: 6 ppm 15 minutes. STEL: 6 ppm 15 minutes. OSHA PEL (United States, 2/2013). TWA: 3 ppm 8 hours. TWA: 6 mg/m³ 8 hours. |

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures :

Hygiene measures : When using do not eat, drink or smoke.

Eye/face protection: Safety glasses.

Skin protection

Hand protection: Wear suitable gloves.

Body protection: Wear suitable protective clothing.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved

standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Consult local authorities for acceptable exposure limits.

5101D

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Viscous liquid.]

Color : Clear.
Odor : Fragrant.
pH : 8.4 to 9.3

Boiling point : >100°C (>212°F)

Flash point : Closed cup: Not applicable.

Relative density : 1.06 to 1.07

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

United States

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-----------|---------|------------|----------|
| hexadecan-1-ol | LD50 Oral | Rat | 5 g/kg | - |
| 2-aminoethanol | LD50 Oral | Rat | 1720 mg/kg | - |

Irritation/Corrosion

| Result | Species | Score | Exposure | Observation |
|--------------------------|--|--|---|--|
| Eyes - Mild irritant | Rabbit | - | 1 hours 100 milligrams | - |
| Eyes - Mild irritant | Rabbit | - | 24 hours 100 microliters | - |
| Eyes - Moderate irritant | Rabbit | - | 24 hours 100 microliters | - |
| Skin - Mild irritant | Rabbit | - | 24 hours 500 microliters | - |
| Eyes - Mild irritant | Rabbit | - | 82 milligrams | - |
| Skin - Mild irritant | Guinea pig | - | 100 Percent | - |
| Skin - Moderate irritant | Guinea pig | - | 24 hours 100 milligrams | - |
| Skin - Mild irritant | Human | - | 72 hours 75 milligrams | - |
| | | | Intermittent | |
| | Eyes - Mild irritant Eyes - Mild irritant Eyes - Moderate irritant Skin - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Moderate irritant | Eyes - Mild irritant Eyes - Mild irritant Eyes - Moderate irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Moderate irritant Guinea pig Guinea pig | Eyes - Mild irritant Rabbit - Eyes - Mild irritant Rabbit - Eyes - Moderate irritant Rabbit - Skin - Mild irritant Rabbit - Eyes - Mild irritant Rabbit - Eyes - Mild irritant Guinea pig - Skin - Moderate irritant Guinea pig - | Eyes - Mild irritant Eyes - Mild irritant Rabbit Ra |

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Section 11. Toxicological information

| | Skin - Severe irritant | Human | - | 0.2 Percent | - |
|-----------------------------|--------------------------|--------|---|--------------|---|
| | Skin - Mild irritant | Man | - | 48 hours 50 | - |
| | | | | milligrams | |
| | Skin - Severe irritant | Rat | - | 24 hours 100 | - |
| | | | | milligrams | |
| | Skin - Mild irritant | Rabbit | - | 24 hours | - |
| | | | | 2600 | |
| | | | | milligrams | |
| | Skin - Severe irritant | Rabbit | - | 24 hours 100 | - |
| | | | | milligrams | |
| Octadecan-1-ol, ethoxylated | Skin - Moderate irritant | Man | - | 48 hours 20 | - |
| | | | | Percent | |
| 2-aminoethanol | Eyes - Severe irritant | Rabbit | - | 250 | - |
| | | | | Micrograms | |
| | Skin - Moderate irritant | Rabbit | - | 505 | - |
| | | | | milligrams | |
| | I . | | | _ | |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : Causes severe burns.

Ingestion : May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

5101D

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ISO MAINTAMER Two-Step Straightening System - Step 1

Section 11. Toxicological information

Skin contact: Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|-------|--------------|
| Oral | 7143.2 mg/kg |

Section 12. Ecological information

United States

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|------------------------------------|--------------------------------------|--|----------|
| Siloxanes and Silicones, di- Me | Acute LC50 44.5 ppm Fresh water | 5 ppm Fresh water Daphnia - Daphnia magna - Instar 4 | |
| | Acute LC50 3160 µg/l Fresh water | Fish - Ictalurus punctatus | 96 hours |
| 2-aminoethanol | Acute EC50 8.42 mg/l Fresh water | Algae - Desmodesmus subspicatus | 72 hours |
| | Acute LC50 >100000 μg/l Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |
| | Acute LC50 170000 μg/l Fresh water | | 96 hours |

Persistence and degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| 2-aminoethanol | -1.31 | - | low |

Mobility in soil

ISO MAINTAMER Two-Step Straightening System - Step 1

Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|--------------------------|----------------|----------------------|---------|-----|-------|------------------------|
| DOT Classification | Not regulated. | - | - | - | | - |
| TDG Classification | Not regulated. | - | - | - | | - |
| Mexico Classification | Not regulated. | - | - | - | | - |
| ADR/RID Class | Not regulated. | - | - | - | | - |
| IMDG Class | Not regulated. | - | - | - | | - |
| IATA-DGR Class | Not regulated. | - | - | - | | - |

PG*: Packing group

Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: decamethylcyclopentasiloxane; Siloxanes and Silicones, di-Me; 2-benzylideneheptanal; 4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined. Clean Water Act (CWA) 311: ammonia, anhydrous

Clean Air Act (CAA) 112 regulated toxic substances: ammonia, anhydrous

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals

(Precursor Chemicals)

Not listed

DEA List II Chemicals (Essential Chemicals)

: Not listed

5101D

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Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|--------------------------------|------|----------------|----------------------------------|----------|--|--|
| Siloxanes and Silicones, di-Me | 4.00 | No. | No. | No. | Yes. | No. |
| hexadecan-1-ol | 3.00 | No. | No. | No. | Yes. | No. |
| Octadecan-1-ol, ethoxylated | 2.25 | No. | No. | No. | Yes. | No. |
| 2-aminoethanol | 1.00 | Yes. | No. | No. | Yes. | No. |

State regulations

Massachusetts : The following components are listed: AMMONIA; ETHANOLAMINE

New York : The following components are listed: Ammonia

New Jersey : The following components are listed: AMMONIA; ETHANOLAMINE; ETHANOL,

2-AMINO-

Pennsylvania: The following components are listed: AMMONIA; ETHANOL, 2-AMINO-

California Prop. 65

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product is not known to the State of California to cause cancer.

Not available.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Canada

WHMIS (Canada)
: Class D-2B: Material causing other toxic effects (Toxic).

Class E: Corrosive material

Canadian lists

Canadian NPRI : The following components are listed: Ammonia (total)

CEPA Toxic substances: The following components are listed: Ammonia dissolved in water

Canada inventory : Not determined.

5101D

Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification



Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

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References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

5101D