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SECTION 1: Identification**1.1 Product identifier**Trade name **MasterRinse****Other means of identification**

Product code(s): 1041 Formula code: 04-971015

1.2 Relevant identified uses

Relevant identified uses General use

Uses advised against
do not use for squirting or spraying
do not use for products which come into direct contact with the skin**1.3 Details of the supplier of the safety data sheet**MasterBlend • 5285 Fox Street • CO 80216 Denver • United States •
Telephone: 303.373.0702 • Telefax 303.373.4968 • e-mail: info@masterblend.net • Website: masterblend.net**1.4 Emergency telephone number**Chem-Tel **1.800.255.3924** (USA & Canada) **1.813.248.0585** (International)**SECTION 2: Hazard(s) identification****2.1 Classification of the substance or mixture****Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

| Annex | Hazard class and category | Hazard statement code(s) |
|-------|-----------------------------------|------------------------------|
| A.2 | skin corrosion/irritation | Cat. 1B (Skin Corr. 1B) H314 |
| A.3 | serious eye damage/eye irritation | Cat. 1 (Eye Dam. 1) H318 |

Remarks

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements**Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)****Signal word** **DANGER****Pictograms**

GHS05

**Hazard statements**

H314 Causes severe skin burns and eye damage.

Precautionary statements**Precautionary statements - prevention**Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/eye protection/face protection.

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Precautionary statements - response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Specific treatment (see on this label).

Precautionary statements - disposal

Dispose of contents/container to industrial combustion plant.

Hazardous ingredients for labelling hydroxyacetic acid

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients**3.1 Substances**

not relevant (mixture)

3.2 Mixtures**3.2.1**

| Name of substance | Identifier | Wt% |
|------------------------|------------------------|-----------|
| Deionized Water | CAS No 7732-18-5 | 75 - < 90 |
| Hydroxyacetic acid | CAS No 79-14-1 | 5 - < 15 |
| Sodium octanesulfonate | CAS No 5324-84-5 | < 1 |
| Fragrance | CAS No Trade Secret | < 1 |

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures**4.1 Description of first-aid measures****General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

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Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO₂)**Unsuitable extinguishing media**

water jet

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up**Advices on how to contain a spill**

Covering of drains.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Recommendations****Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities**Managing of associated risks****Incompatible substances or mixtures**

Observe compatible storage of chemicals.

Control of the effects**Protect against external exposure, such as**

frost

Consideration of other advice**Packaging compatibilities**

Only packagings which are approved (e.g. acc. to DOT) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****National limit values****Occupational exposure limit values (Workplace Exposure Limits)****Relevant DNELs/DMELs/PNECs and other threshold levels**

No data available.

8.2 Exposure controls**Appropriate engineering controls**

General ventilation.

Individual protection measures (personal protective equipment)**Eye/face protection**

Wear eye/face protection.

Skin protection**• hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

| | |
|----------------|-------------------------|
| Physical state | liquid |
| Color | colorless - transparent |
| Odor | characteristic |

Other physical and chemical parameters

| | |
|---|-----------------------------|
| pH (value) | 3.75 (ready to use (320:1)) |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 169 °C at 998 hPa |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant (fluid) |
| Explosive limits | not determined |
| Vapor pressure | 0.41 Pa at 25 °C |
| Density | not determined |
| Relative density | not determined |
| Solubility(ies) | not determined |
| Auto-ignition temperature | not determined |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

SECTION 10: Stability and reactivity**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

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10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**Acute toxicity**

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|--------------------|---------|-----------------------|-----|
| hydroxyacetic acid | 79-14-1 | inhalation: dust/mist | 1.5 |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity

- National Toxicology Program (United States): none of the ingredients are listed
- IARC Monographs none of the ingredients are listed

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

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Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)**Aquatic toxicity (acute) of components of the mixture**

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|--------------------|---------|----------|----------|-----------------------|---------------|
| hydroxyacetic acid | 79-14-1 | LC50 | 164 mg/l | fish | 96 hours |
| hydroxyacetic acid | 79-14-1 | EC50 | 141 mg/l | aquatic invertebrates | 48 hours |

Aquatic toxicity (chronic)**Aquatic toxicity (chronic) of components of the mixture**

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|--------------------|---------|----------|----------|-----------------------|---------------|
| hydroxyacetic acid | 79-14-1 | EC50 | 141 mg/l | aquatic invertebrates | 24 h |

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.2 Persistence and degradability

Data are not available.

Degradability of components of the mixture

| Name of substance | CAS No | Process | Degradation rate | Time |
|--------------------|---------|---------------------------|------------------|------|
| hydroxyacetic acid | 79-14-1 | carbon dioxide generation | 78 % | 11 d |

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
|--------------------|---------|-----|---------|----------|
| hydroxyacetic acid | 79-14-1 | | 0.3 | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

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12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.


Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

| | | |
|-------------|--|--|
| 14.1 | UN number | 1760 |
| 14.2 | UN proper shipping name | CORROSIVE LIQUID, N.O.S. |
| | Hazardous constituents | hydroxyacetic acid |
| 14.3 | Transport hazard class(es) | |
| | Class | 8 (corrosive substances) |
| 14.4 | Packing group | III (substance presenting low danger) |
| 14.5 | Environmental hazards | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 14.6 | Special precautions for user | |
| | There is no additional information. | |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| | The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations**• Transport of dangerous goods by road or rail (49 CFR US DOT)**

| | |
|---|--------------------------|
| Index number | 1760 |
| Proper shipping name | Corrosive liquid, n.o.s. |
| Class | 8 |
| Packing group | III |
| Danger label(s) | 8 |
|  | |
| Special provisions (SP) | IB3, T7, TP1, TP28 |
| ERG No | 154 |

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• **International Maritime Dangerous Goods Code (IMDG)**

| | |
|----------------------|--------------------------|
| UN number | 1760 |
| Proper shipping name | CORROSIVE LIQUID, N.O.S. |
| Class | 8 |
| Packing group | III |
| Danger label(s) | 8 |



| | |
|--------------------------|----------|
| Special provisions (SP) | 223, 274 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| EmS | F-A, S-B |
| Stowage category | B |

• **International Civil Aviation Organization (ICAO-IATA/DGR)**

| | |
|----------------------|--------------------------|
| UN number | 1760 |
| Proper shipping name | Corrosive liquid, n.o.s. |
| Class | 8 |
| Packing group | III |
| Danger label(s) | 8 |



| | |
|--------------------------|---------|
| Special provisions (SP) | A3, 274 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 1 L |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System (American Coatings Association)

| Category | Rating | Description |
|-------------------------------|--------|---|
| Chronic | / | None. |
| Health | 3 | Major injury likely unless prompt action is taken and medical treatment is given. |
| Flammability | 1 | Material that must be preheated before ignition can occur. |
| Physical hazard | 0 | Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive. |
| Personal protective equipment | - | |

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NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

| Category | Degree of hazard | Description |
|----------------|------------------|---|
| Flammability | 1 | Material that must be preheated before ignition can occur. |
| Health | 3 | Material that, under emergency conditions, can cause serious or permanent injury. |
| Instability | 0 | Material that is normally stable, even under fire conditions. |
| Special hazard | | |

Relevant European Union (EU) safety, health and environmental provisions**Classification according to GHS (1272/2008/EC, CLP)****Hazard class**

skin corrosion/irritation

serious eye damage/eye irritation

Category Hazard class and category

1B (Skin Corr. 1B)

1 (Eye Dam. 1)

SECTION 16: Other information, including date of preparation or last revision**Abbreviations and acronyms**

| Abbr. | Descriptions of used abbreviations |
|------------------|---|
| 49 CFR US DOT | 49 CFR § 40 U.S. Department of Transportation |
| ATE | Acute Toxicity Estimate |
| BCF | BioConcentration Factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| COD | chemical oxygen demand |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| DOT | Department of Transportation (USA) |
| EmS | Emergency Schedule |
| ERG No | Emergency Response Guidebook - Number |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HMIS | Hazardous Materials Identification System |
| IARC Mono-graphs | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| log KOW | n-octanol/water |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NFPA® 704 | National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States) |

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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| vPvB | very Persistent and very Bioaccumulative |

Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|---|
| H314 | causes severe skin burns and eye damage |
| H318 | causes serious eye damage |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.