***Safety Data Sheet***

According to Regulations (EC) No. 453/2010

MS Code : MS86 Revision : 10 Rev Date : 04/21/2015 Supersedes : 11/18/2014

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

1.1. Product identifier

Product form : LIQUID

Product name :Microcide

Product code :800

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

 Industrial Cleaner

1.3. Details of the supplier of the safety data sheet

ShivaShade

2025 Merrick Rd.

Merrick NY, 11566

 (516) 665-8323

1.4. Emergency telephone number

Emergency number : INFOTRAC: 800-535-5053 North America

 352-323-3500 International

**1.4. Emergency telephone number**

Emergency contact number : For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours)

within USA and CANADA: 1-800-424-9300

Outside USA and Canada (collect call accepted): 1-703-527-3883

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Xi; R36

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No data available

**2.2. Label elements**

**Labelling according to Directive 67/548/EEC or 1999/45/EC**

Symbol and Nature of Warning / Danger. :

Signal World **:** Warning

Irritant

R-phrases **:** R36: Irritating to eyes.

S-phrases : S23: Do not breath vapor or spray.

: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

: S51: Use only in well-ventilated area.

**2.3. Other hazards**

Product may cause skin irritation through prolonged and direct contact.

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

**3.1. Substances**

Not applicable

|  |
| --- |
| **3.2. Mixtures** |
|  |
| **Name** | **Product identifier** | **%** | **Classification according to****Directive 67/548/EEC** |
| Diethylene glycol monobutyl ether | 203.96-6 | 5 - 10 | Xi; R36 |
| Tetrasodium ethylenediaminetetraacetate | 200-573-9 | 2 - 5 | Xn (Xi); R22-41 |
|  |  |  |  |

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures after inhalation : If respiratory irritation occurs upon inhalation, remove to fresh air. Seek medical attention if symptoms develop or persist.

First-aid measures after skin contact : If splashed or spilled on skin, rinse with plenty of water.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

First-aid measures after ingestion : Seek medical attention immediately. If the person is fully conscious, make him/her drink water.

Never give an unconscious person anything to drink. Do not induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed** Symptoms/injuries after skin contact : Skin areas may become irritated. Symptoms/injuries after eye contact : May cause irritation or damage to the eyes.

Symptoms/injuries after inhalation : May cause chronic nasal passage, throat, or lung irritation if breathed over a prolonged period of time in the form of a mist.

Symptoms/injuries after ingestion : Ingestion may cause immediate pain and severe burns of the mucous membranes.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media: : Use water spray, foam, dry powder, or CO2. Unsuitable extinguishing media : None known.

**5.2. Special hazards arising from the substance or mixture**

Fire hazard : In case of fire, the following can be released: Carbon oxides (COx), nitrogen oxides (NOx). Reactivity : Keep away from open flames and/or high heat.

**5.3. Advice for firefighters**

Protective equipment for firefighters : Wear proper protective equipment. Extra personal protection: complete protective clothing.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

Protective equipment : Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible. Emergency procedures : Avoid contact with skin and eyes. Do not allow the product to be released into the environment.

**6.1.2. For emergency responders**

Protective equipment : Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible. Emergency procedures : Avoid contact with skin and eyes. Do not allow uncontrolled leakage of product into the

environment.

**6.2. Environmental precautions**

Avoid release to the environment. Prevent entry to sewers and public waters.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, dike with dirt, then remove by vacuum truck for disposal.

**6.4. Reference to other sections**

Refer to sections 8 and 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures: : Provide adequate ventilation.

Storage condition(s) : Store in dry, cool, well-ventilated area.

**7.3. Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.2. Exposure controls**

Appropriate engineering controls : Ensure adequate ventilation.

Personal protective equipment : Chemical resistant gloves. Protective goggles.



Hand protection : Chemical resistant gloves.

Eye protection : Wear chemical splash goggle.

Skin and body protection : Protective apron. protective clothing. Wear suitable protective clothing. Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties** Physical state : Liquid Appearance : Thin liquid Colour : Clear, colorless

Odour : No data available Odour threshold : No data available pH : 11 - 12

Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : No data available Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : 0.95 - 1.05

Solubility : Miscible with water

Log Pow : No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : Not explosive Oxidising properties : Not oxidizing Explosive limits : No data available

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions of use.

**10.2. Chemical stability**

Stable under normal conditions of use.

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Strong oxidizing agents, strong reducing agents

**10.6. Hazardous decomposition products**

None known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

Skin corrosion/irritation : No significant effects anticipated

Serious eye damage/irritation : Causes eye irritation pH: 11 - 12

Respiratory or skin sensitisation : May cause chronic nasal passage, throat, or lung irritation if breathed over a prolonged period of time in the form of a mist

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard : Not classified

**SECTION 12: Ecological information**

**12.1. Toxicity**

No significant harmful effects anticipated.

**12.2. Persistence and degradability**

Soluble in water.

**12.3. Bioaccumulative potential**

The organic part of the product is biodegradable.

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Regional legislation (waste) : Dispose of contents/container to comply with applicable local, national and international regulations.

Waste disposal recommendations : Comply with local regulations for disposal.

**SECTION 14: Transport information**

Not a dangerous good in sense of transport regulations

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

Contains no REACH candidate substance Other regulations, restrictions and prohibition Regulations

 Compliance with following regulations: Regulation (EC) 1907/2006 as amended. Regulation (EC)

1272/2008 as amended. Directive 1999/45/EC as amended. Directive 67/548/EEC as amended

.

**15.1.2. National regulations**

No data available

**15.2. Chemical safety assessment**

CSA has not been established

**SECTION 16: Other information**

Sources of Key data : MSDS.

Abbreviations and acronyms : ACGIH (American Conference of Governement Industrial Hygienists). ASTM - American Society for Testing and Materials . CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EEC - European Economic Community. EC - European Community. GHS - Globally Harmonised System. HMIS - Hazardous Materials Identification System. MSDS - Material Safety Data Sheet. OSHA - Occupational Safety and Health Administration. Overland transport (ADR). PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. Relat - Relative. SDS - Safety Data Sheet . STEL- Short-Term Exposure Limit . TLV- Threshold Limit Value. TWA- Time Weighted Average.

Full text of R-, H- and EUH-phrases::

|  |  |
| --- | --- |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Flam. Liq. 3 | flammable liquids Category 3 |
| Skin Corr. 1B | skin corrosion/irritation Category 1B |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitisation Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage  |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| R10 | Flammable |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed |
| R34 | Causes burns |
| R36 | Irritating to eye |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| R38 | Irritating to skin |
| R41 | Risk of serious damage to eyes |
| R43 | May cause sensitisation by skin contact |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R52 | Harmful to aquatic organisms |
| C | Corrosive |
| N | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |

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**SECTION 15: Regulatory information**