# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** MicroFiber Refresh Detergent Concentrate

Other means of identification

**Product Code** 1228

Recommended use Laundry Detergent **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Malco Products, Inc. Company name **Address** 361 Fairview Ave Barberton, OH 44203

**United States** 

Phone 800-253-2526 **Telephone** 

Fax 330-753-2025

Website www.malcopro.com E-mail msdsinfo@malcopro.com **Technical Department Contact person** 

**Emergency phone number** Phone 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Skin corrosion/irritation Category 2 **Health hazards** 

Serious eye damage/eye irritation Category 2A

**Environmental hazards** Not classified. Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

Causes skin irritation. Causes serious eye irritation. **Hazard statement** 

**Precautionary statement** 

Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves. Prevention

Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Store away from incompatible materials. Storage

Dispose of waste and residues in accordance with local authority requirements. **Disposal** 

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 4.54% of the mixture consists of component(s) of unknown acute oral toxicity. 7.73% of the

mixture consists of component(s) of unknown acute dermal toxicity. 4.54% of the mixture consists of component(s) of unknown acute inhalation toxicity. 4.54% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 3.53% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

#### 3. Composition/information on ingredients

## **Mixtures**

Material name: MicroFiber Refresh Detergent Concentrate SDS US

Chemical name	Common name and synonyms	CAS number	%
Sodium Dodecylbenzenesulfonate		25155-30-0	3 - < 5
Ethoxylated Branched C11-c14, C13-rich Alcohols		78330-21-9	1 - < 3
Sodium Xylenesulphonate		1300-72-7	1 - < 3
Tetrasodium Ethylenediaminetetraacetate		64-02-8	< 0.3
Sodium Hydroxide		1310-73-2	< 0.1
Other components below reportable	levels		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation**If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Most important Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

symptoms/effects, acute and vision. Skin irritation. May cause redness and pain.

delayed
Indication of immediate Provide general supporti

Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. treatment needed

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

the chemical

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing** Do not use water jet as an extinguisher, as this will spread the fire.

media

Specific hazards arising from

During fire, gases hazardous to health may be formed.

**Special protective equipment** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters

Fire fighting

Move containers from fire area if you can do so without risk.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

equipment/instructions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# Environmental precautions 7. Handling and storage

**Precautions for safe handling**Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Material name: MicroFiber Refresh Detergent Concentrate

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value
Sodium Hydroxide (CAS	PEL	2 mg/m3
1310-73-2)		

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Components	Туре	Value	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.

Color Pale yellow Clear.

Odor Surfactant
Odor threshold Not available.

**pH** 9.2

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point

Evaporation rate

Not available.

Not available.

Not available.

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Other information

Density8.44 lbs/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.VOC0 % w/w

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

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**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)				
Aquatic				
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	3.26 - 14.51 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	3.2 - 5.6 mg/l, 96 hours	
Sodium Hydroxide (Ca	AS 1310-73-2)			
Aquatic				
Fish	LC50	Western mosquitofish (Gambusia affinis)	125 mg/l, 96 hours	
Tetrasodium Ethylene	diaminetetraacetat	e (CAS 64-02-8)		
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# Persistence and degradability

#### **Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow)

Sodium Dodecylbenzenesulfonate 0.45

Mobility in soil No data available.

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not Annex II of MARPOL 73/78 and

Not established.

the IBC Code

# 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# **CERCLA Hazardous Substance List (40 CFR 302.4)**

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0) Listed. Sodium Hydroxide (CAS 1310-73-2) Listed.

#### SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Sodium Hydroxide (CAS 1310-73-2)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

11-03-2017 Issue date

Version # 01

Material name: MicroFiber Refresh Detergent Concentrate

SDS US 6/7 1228 Version #: 01 Issue date: 11-03-2017

#### **Disclaimer**

Malco Products, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.