CRC.

SAFETY DATA SHEET

1. Identification

Product identifier Mildew Stain Remover

Other means of identification

Product code MK3732, MK37550

Recommended useMarine fabric and hard surface cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc. Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

General Information 215-674-4300 **Technical** 800-521-3168

Assistance

Customer Service 800-272-4620 **24-Hour Emergency** 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Corrosive to metals Category 1

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1
Hazardous to the aquatic environment, acute Category 1

Environmental hazards Hazardous to the aquatic environment, acute C

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Causes skin irritation. Causes serious eye damage. Very toxic to

aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement

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

release to the environment.

Response If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off

contaminated clothing and wash before reuse. 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/doctor. Absorb spillage to prevent material damage.

Storage Store in corrosive resistant container with a resistant inner liner.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Material name: Mildew Stain Remover

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	90 - 100
Sodium hypochlorite		7681-52-9	5 - 10

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get

medical attention if symptoms occur.

Skin contact Immediately take off all contaminated clothing. Wash with soap and plenty of water for 15 minutes.

Do not attempt to neutralize with chemical agents. If skin irritation occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Eye contact Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Hold eyelids apart during flushing to ensure complete rinsing of entire surface of eye and lids with water. Do not attempt to neutralize with chemical agents. Continue flushing with water if physician is not

immediately available.

Ingestion Do not induce vomiting. Rinse mouth. Then give 1-2 glasses of water or milk and call a physician

or poison control center immediately. If vomiting occurs, keep head below hips to reduce risk of aspiration. Give water again. Never give anything by mouth to a victim who is unconscious or is

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye

having convulsions.

Most important symptoms/effects, acute and

symptoms/effects, acute and delayed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Indication of immediate medical attention and special treatment needed

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

damage including blindness could result. Skin irritation. May cause redness and pain.

5. Fire-fighting measures

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

Symptoms may be delayed.

Unsuitable extinguishing media

General information

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk. Cool containers with water spray.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. 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

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. 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. Prevent entry into waterways, sewer, basements or confined areas

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Material name: Mildew Stain Remover 1136 Version #: 01 Issue date: 01-06-2014

7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Avoid breathing mist or vapor. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands after handling and before eating. Observe good industrial hygiene practices. Do not mix this product with other chemical products. Use care in handling/storage. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Store in corrosive resistant container with a resistant inner liner. Keep away from food, drink and animal feedingstuffs. Store in original tightly closed container. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Value Components Type Sodium hypochlorite (CAS STEL 2 mg/m3

7681-52-9)

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Wear protective gloves such as: Neoprene. Latex. **Hand protection** Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Air monitoring is needed to

determine actual employee exposure levels.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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. Liquid. **Form** Color Colorless. Mild. Odor

Odor threshold Not available.

11.9 pН

32 °F (0 °C) estimated Melting point/freezing point 212 °F (100 °C) estimated Initial boiling point and boiling

range

Flash point None (Closed Cup)

Slow. **Evaporation rate**

Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Vapor pressure 21.9 hPa estimated Vapor density Not available.

Relative density 1.04 Solubility (water) Soluble. Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Decomposition temperature

Viscosity (kinematic)

Percent volatile

Not available.

Not available.

90 - 95 %

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardousNo dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid

Avoid overheating or freezing. Reacts violently with strong acids. This product may react with

oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials.

Incompatible materials Acids. Oxidizing agents. Do not mix with acids or other detergents.

Hazardous decomposition

products

Hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Ingestion If swallowed, this product may cause severe irritation or damage of mucosal linings of the mouth,

throat, esophagus or stomach.

Inhalation Inhalation can cause irritation and burning of respiratory passages.

Skin contactCauses skin irritation. Severity of action is highly dependent on contact time.

Eye contact Causes serious eye damage. Permanent eye damage including blindness could result.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not available.

Product Species Test Results

Mildew Stain Remover

Acute Oral

LD50 Rat

178.5571 g/kg estimated

Skin corrosion/irritation Skin contact can cause severe irritation or burns with possible redness, swelling or blistering.

Severity of action is highly dependent on contact time.

Serious eye damage/eye

irritation

Causes serious eye damage. Permanent eye damage including blindness could result.

Respiratory sensitization Not available.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium hypochlorite (CAS 7681-52-9) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

^{*} Estimates for product may be based on additional component data not shown.

Product		Species	Test Results			
Mildew Stain Remover						
Fish	LC50	Fish	31.3813 mg/l, 96 hours estimated			
Components		Species	Test Results			
Sodium hypochlorite	(CAS 7681-52-9)					
Aquatic						
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.038 - 0.065 mg/l, 96 hours			

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

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

13. Disposal considerations

Disposal of waste from residues / unused products

This material and its container must be disposed of as hazardous waste. If discarded, this product is considered a RCRA corrosive waste, D002. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of

Hazardous waste code

contents/container in accordance with local/regional/national regulations. D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hypochlorite (CAS 7681-52-9)

CERCLA Hazardous Substances: Reportable quantity

Sodium hypochlorite (CAS 7681-52-9)

100 lbs

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

Material name: Mildew Stain Remover 1136 Version #: 01 Issue date: 01-06-2014

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Immediate Hazard - Yes **Section 311/312** Delayed Hazard - No Hazard categories Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

US state regulations

US. New Jersey RTK - Substances: Listed substance

Sodium hypochlorite (CAS 7681-52-9)

US. Massachusetts RTK - Substance List

Sodium hypochlorite (CAS 7681-52-9)

US. Pennsylvania RTK - Hazardous Substances

Sodium hypochlorite (CAS 7681-52-9)

US. Rhode Island RTK

Sodium hypochlorite (CAS 7681-52-9)

US. California Proposition 65

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.

Volatile organic compounds (VOC) regulations

VOC content (40 CFR

51.100(s))

Consumer products

Compliant

(40 CFR 59, Subpt. C)

State

This product is regulated as a General Purpose Cleaner (non-aerosol). This product is compliant **Consumer products**

for use in all 50 states.

Inventory name

VOC content (CA) 0 % 0 % **VOC** content (OTC)

International Inventories

Country(s) or region

• · · · · ·	·	
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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}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).

Toxic Substances Control Act (TSCA) Inventory

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

01-06-2014 Issue date Prepared by Allison Cho

Version # 01

United States & Puerto Rico

Not available. **Further information HMIS®** ratings Health: 2 Flammability: 0

Physical hazard: 0 Personal protection: B

1136 Version #: 01 Issue date: 01-06-2014

Yes

On inventory (yes/no)*

NFPA ratings

Health: 2 Flammability: 0 Instability: 0

Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.