

# SAFETY DATA SHEET

## 1. Identification

Product identifier Big Bully® Natural Orange Bilge Cleaner

Other means of identification

Product code MK2332, MK23128
Recommended use Boat bilge cleaner
Recommended restrictions None known.

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A
Sensitization, skin Category 1
Aspiration hazard Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin

reaction. Causes serious eye irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting

effects.

**Precautionary statement** 

**Prevention** Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the

workplace. Wear protective gloves and eye/face protection. Avoid release to the environment.

Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash

with plenty of water. If skin irritation or rash 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. If eye irritation persists: Get

medical attention. Collect spillage.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

# Supplemental information

8.05% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 8.05% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

Mixtures					
Chemical name	Common name and synonyms	CAS number	%		
Water		7732-18-5	70 - 80		
d-Limonene		5989-27-5	10 - 20		
Soybean oil, Methyl ester		67784-80-9	5 - 10		
Alcohols, C8-10, ethoxylated propoxylated		68603-25-8	3 - 5		

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

### 4. First-aid measures

Ingestion

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 immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Take off

contaminated clothing and wash 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.

Call a physician or poison control center immediately. Get medical advice/attention if you feel unwell. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.

Most important
Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May symptoms/effects, acute and delayed
Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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

# 5. Fire-fighting measures

**General information** 

Suitable extinguishing media Alcohol resistant foam. Water spray. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing Water. 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.

the chemical

**Special protective equipment** Wear suitable protective equipment. and precautions for firefighters

**Fire-fighting** Move containers from fire area if you can do so without risk. **equipment/instructions** 

General fire hazards No unusual fire or explosion hazards noted.

# 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. Avoid inhalation of vapors or mists. 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. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

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 in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. 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 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.

# **Environmental precautions**

## 7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. 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 Keep container tightly closed. Store away from incompatible materials (see Section 10 of the

SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components **Type** Value d-Limonene (CAS TWA 165.5 mg/m3 5989-27-5)

30 ppm

**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).

Skin protection

Hand protection Wear protective gloves: Nitrile. Rubber.

Other Wear appropriate chemical resistant clothing.

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

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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. Contaminated work

clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Form Liquid. Color Milky white. Odor Citrus. Not available. **Odor threshold** 

pН

Melting point/freezing point -139.9 °F (-95.5 °C) estimated

Initial boiling point and boiling

212 °F (100 °C) estimated

range

Flash point None (Tag Closed Cup)

Slow. **Evaporation rate** 

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits 0.7 % estimated

Flammability limit - lower

(%)

Flammability limit - upper

6.1 % estimated

18.2 hPa estimated Vapor pressure Not available. Vapor density

0.97 Relative density Soluble. Solubility (water)

Partition coefficient (n-octanol/water)

Not available.

**Auto-ignition temperature** 

458 °F (236.7 °C) estimated

Decomposition temperatureNot available.Viscosity (kinematic)Not available.Percent volatile100 % estimated

# 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

No dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid

Contact with incompatible materials. None under normal conditions.

Incompatible materials Hazardous decomposition

None known.

Carbon oxides.

products

# 11. Toxicological information

Information on likely routes of exposure

**Ingestion** May be fatal if swallowed and enters airways.

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eve contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an

allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

Product Species Test Results

Big Bully® Natural Orange Bilge Cleaner

**Acute** 

Dermal

LD50 Rabbit 16.7051 g/kg estimated

Oral

LD50 Rat 16.7051 g/kg estimated

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

**Respiratory sensitization** Due to lack of data the classification is not possible.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

#### IARC Monographs. Overall Evaluation of Carcinogenicity

d-Limonene (CAS 5989-27-5)

3 Not classifiable as to carcinogenicity to humans.

**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 -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

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

# 12. Ecological information

**Ecotoxicity**Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

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

	Test Results	Species		Product
			inge Bilge Cleaner	Big Bully® Natural Ora
48 hours estimated	465.0697 mg/l, 48 hours estima	Daphnia	EC50	Crustacea
3 hours estimated	4.1362 mg/l, 96 hours estimated	Fish	LC50	Fish
	Test Results	Species		Components
	Test Results	Species	9-27-5)	Components d-Limonene (CAS 598

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 69.6 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours

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

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

d-Limonene 4.232

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 product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty containers may be recycled. 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 contents/container in accordance with local/regional/national regulations.

Hazardous waste code

Not regulated.

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.

# 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)** 

**CERCLA Hazardous Substances: Reportable quantity** 

Not listed.

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)

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

Not regulated. **Food and Drug** 

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Nο

Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** hazardous substance

#### **US** state regulations

US. New Jersey RTK - Substances: Listed substance

**US. Massachusetts RTK - Substance List** 

US. Pennsylvania RTK - Hazardous Substances

None.

**US. Rhode Island RTK** 

None.

# **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

#### **EPA**

VOC content (40 CFR

23 %

51.100(s))

**Consumer products** (40 CFR 59, Subpt. C) Not regulated

State

**Consumer products** Not regulated 15.2 % VOC content (CA) **VOC** content (OTC) 15.2 %

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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

11-14-2013 Issue date Prepared by Allison Cho

Version #

**Further information** CRC # 443C **HMIS®** ratings Health: 2 Flammability: 1

Physical hazard: 0 Personal protection: B **NFPA** ratings

Health: 2 Flammability: 1 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.