

AIKEN CHEMICAL COMPANY, INC.

Safety Data Sheet

SHIELD Bug & Tar Remover

SECTION 1: Identification

1.1 Product identifier

Product name	Bug and Tar Remover
Brand	SHIELD
Product Number	1116

1.4 Supplier's details

Name	Aiken Chemical Company, Inc.
Address	P.O. Box 27147 Greenville, SC 29616 USA
Telephone	864-968-1250
Fax	864-968-1252
email	donnie@clean-rite.com

1.5 Emergency phone number(s)

800-424-9300

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

- Flammable liquids (C.4.19), Cat. 4
- Aspiration hazard (C.4.13), Cat. 1
- Acute toxicity, Cat. 4
- Eye damage/irritation (C.4.5), Cat. 2A
- Skin corrosion/irritation (C.4.4), Cat. 2
- Acute toxicity, oral (C.4.1), Cat. 4
- Eye damage/irritation (C.4.5), Cat. 1
- Corrosive to metals (C.4.29), Cat. 1
- Skin corrosion/irritation (C.4.4), Cat. 1
- Acute hazards to the aquatic environment (chapter 4.1), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram



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Signal word

Danger

Hazard statement(s)

H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H332	Harmful if inhaled
H312	Harmful in contact with skin
H302	Harmful if swallowed
H319	Causes serious eye irritation
H315	Causes skin irritation
H318	Causes serious eye damage
H402	Harmful to aquatic life
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting
P370	In case of fire: Use CO ₂ , dry chemical, or foam for extinction
P405	Store locked up.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container to an approved waste disposal plant
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P234	Keep only in original container.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor/if you feel unwell
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material-damage.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

Concentration < 30 % (weight)
CAS no. 64742-47-8

2. ETHYLENE GLYCOL MONOBUTYL ETHER

Concentration < 5 % (weight)
EC no. 203-905-0

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CAS no. 111-76-2
Index no. 603-014-00-0

3. Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-
Concentration < 2 % (weight)
CAS no. 160875-66-1

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician/doctor if necessary. Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Show this material safety data sheet to the doctor in attendance.
If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, get medical attention.
In case of eye contact	In case of eye contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists, get medical attention
If swallowed	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Call a poison control center or physician immediately.

4.2 Most important symptoms/effects, acute and delayed

Symptoms may not appear immediately. Seek medical attention if effects persist and you feel unwell

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water spray, carbon dioxide, dry chemical, and alcohol foam

5.2 Specific hazards arising from the chemical

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes, and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: harmful vapors Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Sodium Hydroxide 25%: Fire Hazard: Not flammable.
Explosion Hazard: Product is not explosive.
Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

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5.3 Special protective actions for fire-fighters

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). See Section 8 for personal protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.3 Methods and materials for containment and cleaning up

For containment: Contain and absorb spill with inert material. Place in suitable container for disposal. Spilled material may be slippery. For clean up: Take up material and place in a suitable container. Provide adequate ventilation. Spilled material may be slippery.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not swallow. Do not eat, drink, or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and footwear before reuse. Use only non-sparking tools. Keep away from sparks, open flames, and hot surfaces.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Keep container tightly closed. Store in a well-ventilated place. Do not store above 49°C (120°F).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics (CAS: 64742-46-7)

TWA (Inhalation): 5 mg/m³ (OSHA)

REL-C (Inhalation): 5 mg/m³ (NIOSH)

STEL (Inhalation): 10 mg/m³ (NIOSH)

TWA (Inhalation): 5 mg/m³ (ACGIH)

2. 2-Butoxyethanol (CAS: 111-76-2)

PEL (Inhalation): 50 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 240 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 20 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 5 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

3. Sodium Hydroxide 25% (CAS: 1310-73-2)

PEL-C (Inhalation): 2 mg/m³ (Cal/OSHA)

TLV® (Inhalation): 2 mg/m³ (ACGIH)

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REL-C (Inhalation): 2 mg/m³ (NIOSH)

8.2 Appropriate engineering controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to workstation.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Wear safety glasses or splash goggles to prevent eye contact.

Skin protection

Wear suitable protective clothing.

Body protection

Wear suitable protective clothing.

Respiratory protection

Provide good ventilation.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid/beige to off white
Odor	typical solvent
Odor threshold	No data available.
pH	8 - 9
Melting point/freezing point	0°C (32°F) – Based on Water
Initial boiling point and boiling range	100°C (212°F) – Based on Water
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	0.889
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

Does not react under normal conditions

10.2 Chemical stability

Does not react under normal conditions

10.3 Possibility of hazardous reactions

Does not react under normal conditions

10.4 Conditions to avoid

Heat and incompatible materials

10.5 Incompatible materials

Strong oxidizers such as bleach and peroxides

10.6 Hazardous decomposition products

CO₂, CO, and hydrocarbons

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acrylic copolymer: Acute oral toxicity Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. For this family of materials: LD₅₀, Rat, male, > 5,000 mg/kg Acute dermal toxicity Prolonged skin contact is unlikely to result in absorption of harmful amounts. For this family of materials: LD₅₀, Rabbit, male, > 5,000 mg/kg Acute inhalation toxicity No adverse effects are anticipated from single exposure to mist.

For this family of materials: LC₅₀, Rat, males, 1 hr., dust/mist, > 15.23 mg/l No deaths occurred at this concentration.

Hydrocarbons, C₁₃-C₂₃, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: LD₅₀ > 5000 mg/kg bw (rat - OECD 401)

LD₅₀ (24h) > 3160 mg/kg bw (rabbit - OECD 402)

LC₅₀ (4h) > 5266 mg/m³ (aerosol) (rat - OECD 403)

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Slightly toxic after single ingestion. LD₅₀ judged > 500 mg/kg based on deaths at 200 mg/kg (0/6) and 2000 mg/kg (2/3) plus oral LD₅₀ data on surrogate chemicals.

Sodium Hydroxide 25%: The components of this material have been reviewed in various sources and the following selected endpoints are published:

Sodium Hydroxide(1310-73-2) Oral LD₅₀ Rat 140-340 mg/kg; Dermal LD₅₀ Rabbit 1350 mg/kg

Skin corrosion/irritation

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Acrylic copolymer: Brief contact is essentially nonirritating to skin.
Prolonged contact may cause slight skin irritation with local redness.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Not classified.

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Causes skin irritation

Sodium Hydroxide 25%: Severely corrosive to the skin. Causes severe burns.

Serious eye damage/irritation

Acrylic copolymer: May cause slight temporary eye irritation.
Corneal injury is unlikely.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Not classified.

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Causes serious eye damage

Sodium Hydroxide 25%: Severely corrosive to the eyes. Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness.

Respiratory or skin sensitization

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Not classified as a sensitizer

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Skin sensitizing effects were not observed in animal studies.

Sodium Hydroxide 25%: Not sensitizing

Germ cell mutagenicity

Acrylic copolymer: For this family of materials: In vitro genetic toxicity studies were predominantly negative.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: This product is not classified as mutagenic

Carcinogenicity

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Acrylic copolymer: No relevant information found.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: This product is not classified carcinogenic.

Sodium Hydroxide 25%: NTP Not listed. IARC Not listed. OSHA Not listed.

Reproductive toxicity

Acrylic copolymer: No relevant information found.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: The current toxicological knowledge allows to not classify the product as a toxic to reproduction.

Sodium Hydroxide 25%: No known reproductive toxicity, mutagenic or teratogenic effects in animal experiments are known.

STOT-single exposure

Acrylic copolymer: Available data are inadequate to determine single exposure specific target organ toxicity.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Not Classified.

STOT-repeated exposure

Acrylic copolymer: No relevant data found.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Not Classified.

Aspiration hazard

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Not Classified.

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: No aspiration hazard expected.

Additional information

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Aspiration Hazard May be fatal if swallowed and enters airways.

ETHYLENE GLYCOL MONOBUTYL ETHER: *TOXICITY:

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typ. dose mode specie amount units other
TCLo ihl hmn 195 ppm/8H
LD50 orl rat 1480 mg/kg
LC50 ihl rat 450 ppm/4H
LD50 ipr rat 220 mg/kg
LD50 ivn rat 340 mg/kg
LD50 orl mus 1230 mg/kg
LC50 ihl mus 700 ppm/7H
LD50 ipr mus 536 mg/kg
LDLo scu mus 500 mg/kg
LD50 ivn mus 1130 mg/kg
LD50 orl rbt 320 mg/kg
LD50 skn rbt 490 mg/kg
LD50 ivn rbt 280 mg/kg
LD50 orl gpg 1200 mg/kg
LD50 skn gpg 230 mg/kg
LD50 ipr rbt 220 mg/kg

*AQTX/TLM96: 1000-100 ppm

*SAX TOXICITY EVALUATION:

THR = HIGH human irritant via inhalation. HIGH via intravenous, oral and dermal routes. MODERATE via oral, intraperitoneal, inhalation, subcutaneous and dermal routes. MILD skin and eye irritant.

*CARCINOGENICITY: Not available

*MUTATION DATA:

test lowest dose | test lowest dose

----- | -----
Not available |

*TERATOGENICITY:

Reproductive Effects Data:

TCLo: ihl-rat 200 ppm/6H (6-15D preg)

TCLo: ihl-rat 25 ppm/6H (6-15D preg)

TDLo: orl-mus 9440 mg/kg (7-14D preg)

TCLo: ihl-rbt 200 ppm/6H (6-18D preg)

TCLo: ihl-rbt 100 ppm/6H (6-18D preg)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 50 ppm (skin) [610]

Final Limit: PEL-TWA 25 ppm (skin) [610]

ACGIH: TLV-TWA 25 ppm (skin) [610]

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): 2

Flammability (F): 2

Reactivity (R): 0

H2: Materials hazardous to health, but areas may be entered freely with full-faced mask self-contained breathing apparatus which provides eye protection (see NFPA for details).

F2: Materials which must be moderately heated before ignition will occur (See NFPA for details).

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R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-rbt 500 mg open MLD

eye-rbt 18 mg

Standards and Regulations: DOT-IMO: Poison B; Label: St. Andrew's Cross, Flammable liquid

Status: "NIOSH Manual of Analytical Methods, 3rd. Ed."

Reported in EPA TSCA Inventory, 1983

EPA TSCA Section 8(e) Status Report 8EHQ-0483-0475

Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity

Acrylic copolymer: Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). For this family of materials: LC50, Lepomis macrochirus (Bluegill sunfish), 96 hrs., > 1,000 mg/l For this family of materials: LC50, Oncorhynchus mykiss (rainbow trout), 96 hrs., > 100 mg/l For this family of materials: LC50, Rainbow trout (Salmo gairdneri), 96 hrs., > 1,000 mg/l Acute toxicity to aquatic invertebrates For this family of materials: EC50, water flea Daphnia magna, 48 hrs., > 100 mg/l Acute toxicity to algae/aquatic plants For this family of materials: Growth rate EC50, Selenastrum capricornutum (green algae), 72 hrs., Growth rate, > 1,000 mg/l, OECD Test Guideline 201 Toxicity to bacteria For this family of materials: EC50, activated sludge, 3 Hour, Respiration rates., > 100 mg/l, OECD Test Guideline 209

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Not applicable

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Aquatic invertebrates

EC50 (48 h) > 10 - 100 mg/l, Daphnia magna

Analogous: Assessment derived from products with similar chemical character.

Aquatic plants

EC50 (72 h) > 10 - 100 mg/l, Scenedesmus subspicatus Analogous: Assessment derived from products with similar chemical character.

Chronic toxicity to fish No observed effect concentration > 1 mg/l

Sodium Hydroxide 25%: Fish: 96 Hr. LC50 Western Mosquitofish: 125 mg/L; 48 Hr. LC50 Bluegill: 99 mg/L

Invertebrate: 48 hr. EC50 Daphnia magna: 34.59 - 47.13 mg/L

Persistence and degradability

Acrylic copolymer: No relevant data found.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics: Readily biodegradable (74 % after 28 days).

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Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: ≥ 90 % Bismuth-active substance (mod. OECD 303A) Analogous: Assessment derived from products with similar chemical character. > 60 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Readily biodegradable.

Sodium Hydroxide 25%: No information available

Bioaccumulate potential

Acrylic copolymer: No relevant data found.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, $< 0.03\%$ aromatics: Product Information Measured experimental data on hydrocarbon UVCB substances are not meaningful, since each of the constituents is likely to behave differently.

logPow: Not applicable

Component Information: Not applicable.

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: Accumulation in organisms is not to be expected.

Sodium Hydroxide 25%: This product is not expected to bioaccumulate.

Mobility in soil

Acrylic copolymer: No relevant data found.

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, $< 0.03\%$ aromatics: Soil: Given its physical and chemical characteristics, the product generally shows low soil mobility

Air: Volatilization is dependent on Henry's Constant which is not applicable to UVCB

Water: The product is insoluble and floats on water

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-: The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

Sodium Hydroxide 25%: No information available.

Other adverse effects

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, $< 0.03\%$ aromatics: General: Information No information available

SECTION 13: Disposal considerations

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Disposal of the product

Dispose in accordance with all applicable federal, state, provincial and local regulation. Contact your federal, state, provincial and local authorities for specific rules.

Disposal of contaminated packaging

Dispose in accordance with all applicable federal, state, provincial and local regulation. Contact your federal, state, provincial and local authorities for specific rules.

SECTION 14: Transport information

DOT (US)

UN Number:

Class:

Packing Group:

Proper Shipping Name:

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

IATA

UN Number:

Class:

Packing Group:

Proper Shipping Name:

SECTION 15: Regulatory information

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

California Prop. 65 Components

This product does not contain any Proposition 65 chemicals.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

CERCLA Hazardous Substance

Yes

CERCLA Reportable Quantity (RQ)

1000 lbs.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

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Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

New Jersey Right to Know Components

Common name: 2-BUTOXY ETHANOL

CAS number: 111-76-2

OSHA Air (29CFR 1910.10000, Table Z-1, Z-1A)

Listed

Pennsylvania Right to Know Components

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2

SARA 311/312 Hazards

Acute (immediate) health effects: Yes

Chronic (delayed) health effects: No

Sudden release of pressure hazard: No

Reactivity hazard: Yes

Fire hazard: No

SARA 313 Components

Acute Health Hazard: Yes

Chronic Health Hazard: no

Fire Hazard: Yes

Sudden Release of Pressure Hazard: no

Reactive Hazard: no

Not listed

Toxic Substances Control Act (TSCA) Inventory

All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

Product exempt or listed on the TSCA Inventory.

15.2 Chemical Safety Assessment

NFPA (National Fire Protection Association)

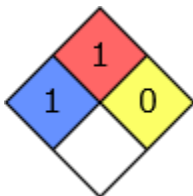
HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

HMIS Rating

Bug and Tar Remover	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



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SECTION 16: Other information

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one

half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or biological material

fw = fresh water

mw = marine water

or = occasional release

dw = dry weight

SCBA = Self Contained Breathing Apparatus

Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

TSCA - Toxic Substance Control Act

16.1 Further information/disclaimer

The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship. Safety Data Sheet information is based on the individual ingredients Safety Data Sheets provided by the supplier.

16.2 Preparation information

Aiken Chemical company, Inc.

P.O. Box 27147

Greenville, SC, 29616

864-968-1250

800-828-1860

864-968-1252 (fax)