

SAFETY DATA SHEET

440-R SMT Detergent

Page: 1 of 6

Printed: 03/18/2019

Revision: 08/04/2021

Supersedes Revision: 12/06/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: SMTDET-001-BULK
Product Name: 440-R SMT Detergent
Company Name: Smart Sonic
837 E. 79th Street
Cleveland, OH 44103
Phone Number: +1 (818)707-3110
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4 ; Dermal, Category 4

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 1



GHS Signal Word:

Danger

GHS Hazard Statement:

Harmful if swallowed.
Harmful in contact with skin.
Causes severe skin burns and eye damage.

GHS Prevention Precautionary Statement:

Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wash contaminated clothing before reuse.
Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response

Precautionary Statement:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Gently wash with plenty of soap and water.
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 advice/attention.

GHS Storage and Disposal Precautionary Statement:

Dispose of contents/container in accordance to local, state and federal regulations.

Inhalation:

Harmful if inhaled. May cause respiratory tract irritation.

Skin Contact:

May cause a burning sensation of the skin. May be harmful if absorbed through the skin.

Eye Contact:

May cause eye irritation and burns.

Ingestion:

May be harmful if swallowed. May cause gastrointestinal irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	Surfactant	< 5.0 %
1310-73-2	Sodium hydroxide	< 5.0 %
1344-09-8	Sodium silicate	<10.0 %
12626-49-2	Dowfax 2A1	< 5.0 %

SAFETY DATA SHEET

440-R SMT Detergent

Page: 2 of 6

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4. FIRST AID MEASURES

Emergency and First Aid Procedures:

- In Case of Skin Contact:** Flush skin with plenty of water. Get medical aid if irritation develops or persists.
- In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical aid immediately.
- In Case of Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.
- Note to Physician:** Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

- Flash Pt:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool.
- Flammable Properties and Hazards:** No data available.
- Hazardous Combustion Products:** No data available.

6. ACCIDENTAL RELEASE MEASURES

- Protective Precautions, Protective Equipment and Emergency Procedures:** Use proper personal protective equipment as indicated in Section 8.
- Environmental Precautions:** Do not let this chemical enter the environment. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section.
- Steps To Be Taken In Case Material Is Released Or Spilled:** Provide ventilation. Do not get water on spilled substances or inside containers. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

7. HANDLING AND STORAGE

- Precautions To Be Taken in Handling:** Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Keep container tightly closed.
- Precautions To Be Taken in Storing:** Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Surfactant	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
1344-09-8	Sodium silicate	No data.	No data.	No data.
12626-49-2	Dowfax 2A1	No data.	No data.	No data.

SAFETY DATA SHEET

440-R SMT Detergent

Page: 3 of 6

Printed: 03/18/2019

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Respiratory Equipment (Specify Type):	Respiratory protection is not required under normal use.
Eye Protection:	Wear chemical splash goggles.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	No data available.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Appearance and Odor:	Colorless. to. Pale yellow. Liquid. Transparent.		
pH:	12.3 - 13.3		
Melting Point:	No data.		
Boiling Point:	No data.		
Flash Pt:	No data.		
Evaporation Rate:	No data.		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Specific Gravity (Water = 1):	1.052 - 1.072		
Solubility in Water:	No data.		
Octanol/Water Partition Coefficient:	No data.		
Autoignition Pt:	No data.		
Decomposition Temperature:	No data.		
Viscosity:	No data.		

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Stability:	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:	Incompatible materials, ignition sources.
Incompatibility - Materials To Avoid:	Strong acids.
Hazardous Decomposition or Byproducts:	No data available.
Possibility of Hazardous Reactions:	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
Conditions To Avoid - Hazardous Reactions:	No data available.

SAFETY DATA SHEET

440-R SMT Detergent

Page: 4 of 6

Printed: 03/18/2019

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11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.

CAS# 1310-73-2: Sodium hydroxide: Acute toxicity, LD50, Oral, Rat, 325.0 MG/KG. Result: Brain and Coverings: Recordings from specific areas of CNS. ; Comptes Rendus Hebdomadaires des Seances, Academie des Sciences., For publisher information, see CRASEV, Paris France
Acute toxicity, LDLO, Oral, Species: Rabbit, 500.0 MG/KG. Result: Biochemical: Metabolism (Intermediary): Other carbohydrates. ; Naunyn-Schmiedeberg's Archiv fuer Experimentelle Pathologie und Pharmakologie.
Acute toxicity, LD50, Dermal, Rabbit, 1350. MG/KG. Result: Blood:Tumors. Immunological Including Allergic: Autoimmune (multiple organ involvement).
Standard Draize Test, Eyes, Species: Monkey., 1.000 %, 24 H. Result: Blood:Tumors. Immunological Including Allergic: Autoimmune (multiple organ involvement). ; Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 6,701, 1964
Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H. Result: Behavioral: Somnolence (general depressed activity). Vascular: BP lowering not characterized in autonomic section. Skin and Appendages: Skin: After topical exposure: Corrosive. ; "Sbornik Vysledku Toxilogickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia

Carcinogenicity/Other Information: OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.

CAS# NA: Surfactant: No data available. , 0.000 . Result: Loss of equilibrium.
CAS# 1310-73-2: Sodium hydroxide: LC50, Cockle (Cerastoderma edule), adult(s), 330000. - 1000000. UG/L, 48 H, Mortality, Water temperature: 15.00 C C. Result: Loss of equilibrium.
LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000. UG/L, 24 H, Mortality,

SAFETY DATA SHEET

440-R SMT Detergent

Water temperature: 22.00 C - 24.00 C C, pH: 9.00. Result: Affected fish lost equilibrium prior to death.

LC50, Guppy (Poecilia reticulata), 145000. UG/L, 24 H, Mortality. Result: Loss of equilibrium.

Persistence and No data available.

Degradability:

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Surfactant	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No
1344-09-8	Sodium silicate	No	No	No
12626-49-2	Dowfax 2A1	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explosive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Specific target organ toxicity (single or repeated exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Combustible Dust		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Physical) Hazard Not Otherwise Classified (HNOC)		

CAS #	Hazardous Components (Chemical Name)
NA	Surfactant
1310-73-2	Sodium hydroxide
1344-09-8	Sodium silicate
12626-49-2	Dowfax 2A1

Other US EPA or State Lists

TSCA: No; CA PROP.65: No; CA TAC, Title 8: No
TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:
TAC: Cat. IIb, Title 8
TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No
TSCA: No; CA PROP.65: No; CA TAC, Title 8: No

SAFETY DATA SHEET

440-R SMT Detergent

Page: 6 of 6

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16. OTHER INFORMATION

Revision Date: 08/04/2021

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer: