

SAFETY DATA SHEET

1. Identification

Product identifier SmartScrubber
Other means of identification SS-C5000N

Recommended use Neutral pH Brush Lubricant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Smart Solutions

Address 12 Corporate Plaza Dr Suite 150

Newport Beach, Ca 92660

Telephone949-675-3200E-mailNot available.

Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation

Category 1A

Reproductive toxicity

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye irritation. May damage fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If in eyes: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Storage Store locked up. Store away from direct sunlight or ultraviolet light. Keep container tightly closed

when not in use. Store in a dry place. Protect from atomspheric moisture.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 39.1% of the mixture consists of component(s) of unknown acute oral toxicity. 39.1% of the

mixture consists of component(s) of unknown acute dermal toxicity. 98.25% of the mixture

consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical nameCommon name and synonymsCAS number%SULFONIC ACIDS,68439-57-627.972

C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS

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Chemical name	Common name and synonyms	CAS number	%
BENZENESULFONIC ACID, DIMETHYL-, SODIUM SALT (1:1)		1300-72-7	7.108
BENZENE, METHYL-		108-88-3	0.1454
BENZENE		71-43-2	0.0182
BENZENE, (1-METHYLETHYL)-		98-82-8	0.0002
BENZENE, ETHYL-		100-41-4	0.0002
Other components below reportable le	evels		64.756

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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

present and easy to do. Continue rinsing. If eye irritation persists. Get medical advice/attention.

Most important

Ingestion

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

General information

Rinse mouth. Get medical attention if symptoms occur.

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

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

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible) Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

During fire, gases hazardous to health may be formed.

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

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

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

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. 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 Prevent entry into waterways, sewer, basements or confined areas.

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. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

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

Occupational exposure limits

Components	Type	Value
BENZENE (CAS 71-43-2)	STEL	5 ppm
	TWA	1 ppm
US. OSHA Table Z-1 Limits for Air Contac Components	minants (29 CFR 1910.1000) Type	Value
BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)	PEL	245 mg/m3
·		50 ppm
BENZENE, ETHYL- (CAS 100-41-4)	PEL	435 mg/m3
		100 ppm
US. OSHA Table Z-2 (29 CFR 1910.1000)	Tuno	Value
Components	Туре	Value
BENZENE (CAS 71-43-2)	Ceiling	25 ppm
	TWA	10 ppm
BENZENE, METHYL- (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm
US. ACGIH Threshold Limit Values		
Components	Type	Value
BENZENE (CAS 71-43-2)	STEL	2.5 ppm
	TWA	0.5 ppm
BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)	TWA	50 ppm
BENZENE, ETHYL- (CAS 100-41-4)	TWA	20 ppm
BENZENE, METHYL- (CAS 108-88-3)	TWA	20 ppm
US. NIOSH: Pocket Guide to Chemical Ha	azards	
Components	Туре	Value
BENZENE (CAS 71-43-2)	STEL	1 ppm
,	TWA	0.1 ppm
BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)	TWA	245 mg/m3
,		50 ppm
BENZENE, ETHYL- (CAS 100-41-4)	STEL	545 mg/m3
		125 ppm
	TWA	435 mg/m3
		100 ppm
BENZENE, METHYL- (CAS 108-88-3)	STEL	560 mg/m3
•		150 ppm
	TWA	375 mg/m3

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Components Type Value

100 ppm

Biological limit values

ACGIH Biological Exposu Components	re Indices Value	Determinant	Specimen	Sampling Time
BENZENE (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in urine	*
BENZENE, ETHYL- (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
BENZENE, METHYL- (CAS 108-88-3)	6 0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

BENZENE (CAS 71-43-2)

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

BENZENE, METHYL- (CAS 108-88-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

BENZENE, METHYL- (CAS 108-88-3)

Skin designation applies.

Skin designation applies.

US - Tennessee OELs: Skin designation

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

BENZENE (CAS 71-43-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

Can be absorbed through the skin.

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.

Individual protection measures, such as personal protective equipment

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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.

Physical and chemical properties

Appearance

Physical state Liquid.

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Liquid. **Form**

Color LIGHT YELLOW

MILD CHARACTERISTIC Odor

Not available. Odor threshold

92

Melting point/freezing point Not available.

212.04 °F (100.02 °C) estimated Initial boiling point and boiling

range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available

(n-octanol/water)

Not available. Auto-ignition temperature Not available. **Decomposition temperature Viscosity** Not available.

Other information

8.85 lbs/gal Density 1.06 g/ml

Explosive properties Not explosive. Oxidizing properties Not oxidizing. 59.31 % estimated Percent volatile

1.06 Specific gravity

VOC 0.16 % estimated

10. Stability and reactivity

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

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid 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 No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation

Ingestion Expected to be a low ingestion hazard.

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

vision

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

BENZENE (CAS 71-43-2)

Acute Oral

LD50 Rat 3306 mg/kg

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

Acute Oral

LD50 Rat 1400 mg/kg

BENZENE, ETHYL- (CAS 100-41-4)

<u>Acute</u> Oral

LD50 Rat 3500 mg/kg

BENZENE, METHYL- (CAS 108-88-3)

<u>Acute</u> Oral

LD50 Rat 2.6 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary 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

BENZENE (CAS 71-43-2) 1 Carcinogenic to humans.

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)
BENZENE, ETHYL- (CAS 100-41-4)
2B Possibly carcinogenic to humans.
2B Possibly carcinogenic to humans.

BENZENE, METHYL- (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

BENZENE (CAS 71-43-2)

Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

BENZENE (CAS 71-43-2) Known To Be Human Carcinogen.

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity May damage fertility or the unborn child.

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 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.

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pecies	Test Results
/ater flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 hours
ainbow trout,donaldson trout Oncorhynchus mykiss)	7.2 - 11.7 mg/l, 96 hours
rine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours
ainbow trout,donaldson trout Oncorhynchus mykiss)	2.7 mg/l, 96 hours
/ater flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
athead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
/ater flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
oho salmon,silver salmon Oncorhynchus kisutch)	8.11 mg/l, 96 hours
AND C14-16-ALKENE, SODIUM SAL	TS (CAS 68439-57-6)
	•
/ater flea (Ceriodaphnia dubia)	4.14 - 4.95 mg/l, 48 hours
	/ater flea (Ceriodaphnia dubia) ble on the degradability of any ingredie

Bioaccumulative potential

 BENZENE
 2.13

 BENZENE, (1-METHYLETHYL) 3.66

 BENZENE, ETHYL 3.15

 BENZENE, METHYL 2.73

Mobility in soil No data available.

Partition coefficient n-octanol / water (log Kow)

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 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

Рe

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.

Transportation information on packaging may be different from that listed.

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SULFONIC ACIDS,

C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS, 1-DODECANAMINE,

N,N-DIMETHYL-, N-OXIDE), MARINE POLLUTANT

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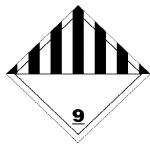
Transport hazard class(es)

Class 9
Subsidiary risk Packing group |||
Environmental hazards

Marine pollutant Yes
EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG



Marine pollutant



General information IMDG Regulated Marine Pollutant.

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)

 BENZENE (CAS 71-43-2)
 Listed.

 BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)
 Listed.

 BENZENE, ETHYL- (CAS 100-41-4)
 Listed.

 BENZENE, METHYL- (CAS 108-88-3)
 Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

BENZENE (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eye

respiratory tract irritation

Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

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Classified hazard

Serious eye damage or eye irritation

categories Reproductive toxicity

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

BENZENE (CAS 71-43-2)

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

BENZENE, ETHYL- (CAS 100-41-4) BENZENE, METHYL- (CAS 108-88-3)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

BENZENE, METHYL- (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

BENZENE, METHYL- (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

BENZENE, METHYL- (CAS 108-88-3) 594

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including BENZENE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

BENZENE (CAS 71-43-2) Listed: February 27, 1987 BENZENE, (1-METHYLETHYL)- (CAS 98-82-8) Listed: April 6, 2010 BENZENE, ETHYL- (CAS 100-41-4) Listed: June 11, 2004

California Proposition 65 - CRT: Listed date/Developmental toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997 BENZENE, METHYL- (CAS 108-88-3) Listed: January 1, 1991

California Proposition 65 - CRT: Listed date/Male reproductive toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997

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

BENZENE (CAS 71-43-2)

BENZENE, (1-METHYLETHYL)- (CAS 98-82-8)

BENZENE, ETHYL- (CAS 100-41-4) BENZENE, METHYL- (CAS 108-88-3)

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)	Yes
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
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes

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United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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

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

Issue date 08-09-2019

Version # 01

Disclaimer

HMIS® ratings Health: 2* Flammability: 0

Physical hazard: 0

Health: 0

NFPA ratings Flammability: 0

Instability: 0

While Smart Solutions Inc. believes the information contained herein to be accurate, Smart

Solutions Inc. makes no representation or warranty, express or implied, regarding, and assumes

Yes

no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with applicable federal, state, and local law. This SDS shall not in any way limit or preclude the operation and

effect of any of the provisions of Smart Solutions Inc. terms and conditions of sale.

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