

# SAFETY DATA SHEET

# 1. Identification

Product identifier	Smartdissolver-Pro	
Other means of identification	SS-CT100L	
Recommended use	Low pH Cement Truck Pre	-Soak
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Smart Solutions	
Address	12 Corporate Plaza Dr Su	ite 150
	Newport Beach, Ca 92660	
Telephone	949-675-3200	
E-mail	Not available.	
Emergency phone number	800-424-9300	CHEMTREC

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified	
OSHA defined hazards	Not classified.	

Label elements



Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting.
Storage	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	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
1,2-PROPANEDIOL		57-55-6	20.958
ETHANOL, 2-AMINO-		141-43-5	10.14
SULFURIC ACID		7664-93-9	0.478
ETHANOL, 2,2'-IMINOBIS-		111-42-2	0.01
Other components below report	able levels		68.414

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

# 4. First-aid measures

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Most important symptoms/effects, acute and delayed	Not available.

### 5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Carbon dioxide (CO2). Foam. Powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas.
Environmental precautions	Not available.

# 7. Handling and storage

Precautions for safe handlingRespiratory protection is "only required" when sprays are present in the air.Conditions for safe storage,<br/>including any incompatibilitiesStore away from direct sunlight or ultraviolet light. Keep container tightly closed when not in use.<br/>Store in a dry place. Protect from atmospheric moisture.

# 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Туре	, Value	
ETHANOL, 2-AMINO- (CAS 141-43-5)	PEL	6 mg/m3	
		3 ррт	
SULFURIC ACID (CAS 7664-93-9)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
ETHANOL, 2-AMINO- (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
SULFURIC ACID (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2)	TWA	15 mg/m3	
		3 ppm	
ETHANOL, 2-AMINO- (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	

US. NIOSH: Pocket Guide to Components	Type		Value	
	TWA		B mg/m3	
SULFURIC ACID (CAS 7664-93-9)	TWA		3 ppm 1 mg/m3	
US. Workplace Environmen Components	tal Exposure Level (WEEL) ( Type		Value	Form
1,2-PROPANEDIOL (CAS 57-55-6)	TWA		10 mg/m3	Aerosol.
ological limit values	No biological exposure limit	s noted for the ingredient	:(s).	
posure guidelines				
US - California OELs: Skin o ETHANOL, 2,2'-IMINOBI US ACGIH Threshold Limit V	S- (CAS 111-42-2)	Can be absorbed thr	ough the skin.	
ETHANOL, 2,2'-IMINOBI	S- (CAS 111-42-2)	Can be absorbed thr	ough the skin.	
propriate engineering ntrols	Not available.			
<b>dividual protection measures,</b> The following are recommend Hazard Assessment of the wo while performing any task invo	ations for Personnel Protectiv orkplace according to OSHA re olving potential exposure to th	e Equipment (PPE). The egulations 29 CFR 1910.		
Eye/face protection	Not available.			
Skin protection				
Hand protection	Not available.			
Other	Not available.			
Respiratory protection	Not available.			
Thermal hazards	Not available.			
Physical and chemical	properties			
pearance				
Physical state	Liquid.			
Form	Liquid.			
Color	CLEAR BROWN			
lor	SULPHUR			
lor threshold	Not available.			
I	Not available.			
elting point/freezing point	Not available.			
tial boiling point and boiling nge	318.17 °F (158.98 °C) estim	ated		
ash point	Not available.			
aporation rate	Not available.			
ammability (solid, gas)	Not available.			
per/lower flammability or exp	losive limits			
Flammability limit - lower (%)	Not available.			
Flammability limit - upper (%)	Not available.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
por pressure	Not available.			
por density	Not available.			

Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.86 lbs/gal 1.06 g/ml
Percent volatile	44.59 % estimated
Specific gravity	1.06
VOC	31.1 % estimated

# 10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Not available.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents.
Hazardous decomposition products	Not available.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Not available.		
Skin contact	Prolonged or repeated exposure been observed in humans.	may cause liver and kidney damage.	These effects have not
Eye contact	Not available.		
Ingestion	Not available.		
Symptoms related to the physical, chemical and toxicological characteristics	Not available.		
Information on toxicological eff	ects		
Acute toxicity			
Components	Species	Test Results	
ETHANOL, 2,2'-IMINOBIS- (CAS	111-42-2)		
Acute			
Oral			
LD50	Rat	710 mg/kg	
ETHANOL, 2-AMINO- (CAS 141-4	43-5)		
Acute			
Dermal			
LD50	Rabbit	1025 mg/kg	
Skin corrosion/irritation	Not available.		
Serious eye damage/eye irritation	Not available.		
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not available.		
Skin sensitization	Not available.		
Germ cell mutagenicity	Not available.		
Material name: Smartdissolver-Pro			SD

Issue date: 04-23-2019

Carcinogenicity

ETHANOL, 2,2'-IMINOBIS	Evaluation of Carcinogenicity S- (CAS 111-42-2) d Substances (29 CFR 1910.10	2B Possibly carcinogenic to humans.	
Not regulated.	gram (NTP) Report on Carcine		
Reproductive toxicity	Not available.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Not available.		
Aspiration hazard	Not available.		
Chronic effects	May be harmful if absorbed the	rough skin.	
	Prolonged or repeated exposu been observed in humans.	re may cause liver and kidney damage.	These effects have not

# 12. Ecological information

		Species	Test Results
1,2-PROPANEDIOL (CAS 57	' <b>-</b> 55-6)	-	
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours
ETHANOL, 2,2'-IMINOBIS- (0	CAS 111-42-2)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	61.8 - 86.04 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	100 mg/l, 96 hours
ETHANOL, 2-AMINO- (CAS Aquatic	141-43-5)		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours
SULFURIC ACID (CAS 7664	-93-9)		
Aquatic			
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 hours
	LC50	Aesop shrimp (Pandalus montagui)	42.5 mg/l, 48 hours
		Cockle (Cerastoderma edule)	200 - 500 mg/l, 48 hours
		Common shrimp, sand shrimp (Crangon crangon)	70 - 80 mg/l, 48 hours
		Green or European shore crab (Carcinus maenas)	70 - 80 mg/l, 48 hours
Fish	LC50	Starry, european flounder (Platichthys flesus)	100 - 330 mg/l, 48 hours
		Western mosquitofish (Gambusia affinis)	42 mg/l, 24 hours
			42 mg/l, 48 hours
			42 mg/l, 96 hours
sistence and degradability	Not available.		
accumulative potential	Not available		
Partition coefficient n-octa	nol / water (log Þ	(ow)	
1,2-PROPANEDIOL		-0.92	
		-1.43	
ETHANOL, 2,2'-IMINOBIS- ETHANOL, 2-AMINO-		-1.31	

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Mobility in soil	Not available.
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

# 13. Disposal considerations

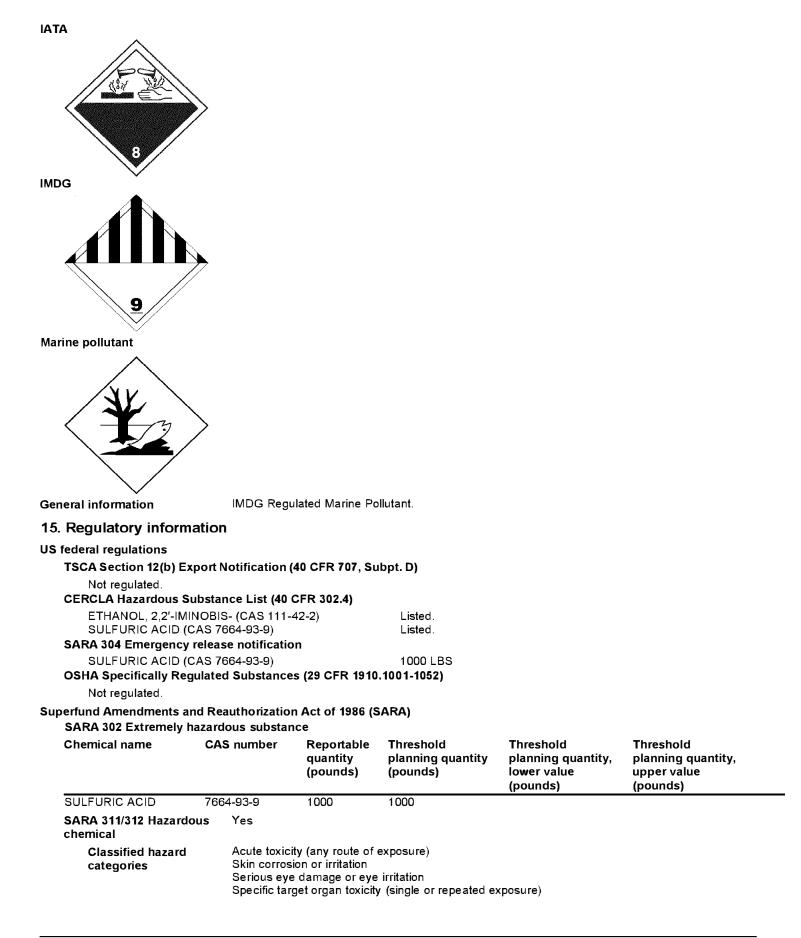
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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	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	
UN number	UN1760
UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (ALKYL SULFONIC ACID, HYDROCHLORIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II. Contraction of the second s
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ERG number	154
Transportation information on	packaging may be different from that listed.
ΙΑΤΑ	
UN number	UN1760
UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (ALKYL SULFONIC ACID, HYDROCHLORIC ACID)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	154
	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZENESULFONIC ACID, C10-16-ALKYL DERIVS.), MARINE POLLUTANT
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.

DOT





#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2)

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

20 %WV

6552

SULFURIC ACID (CAS 7664-93-9) 6552 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

SULFURIC ACID (CAS 7664-93-9)

DEA Exempt Chemical Mixtures Code Number

SULFURIC ACID (CAS 7664-93-9)

### **US** state regulations

California Proposition 65

WARNING: This product can expose you to ETHANOL, 2,2'-IMINOBIS-, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2) Listed: June 22, 2012

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

ETHANOL, 2,2'-IMINOBIS- (CAS 111-42-2)

#### International Inventories

Country(s) or region Australia	Inventory name Australian Inventory of Chemical Substances (AICS)	On inventory (yes/no)* No
Canada	Domestic Substances List (DSL)	Yes
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)	Νο
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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).

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

Issue date	04-23-2019
Version #	03
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: Instability: 0 <sub>1</sub>

#### Disclaimer

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