

# SAFETY DATA SHEET

Be Right<sup>™</sup>

Issue Date 15-Aug-2018 Revision Date 17-Aug-2018 Version 7.2 Page 1/18 **1. IDENTIFICATION** Product identifier **Product Name** StablCal® Standard, 1.0 NTU Other means of identification Product Code(s) 2659849 Safety data sheet number M01360 Recommended use of the chemical and restrictions on use **Recommended Use** Laboratory Use. Standard solution. Uses advised against None. **Restrictions on use** None. Details of the supplier of the safety data sheet

**Manufacturer Address** Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

### 2. HAZARDS IDENTIFICATION

#### Classification

#### **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory sensitization	Category 1
Skin sensitization	Category 1

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word - Danger



**Hazard statements** 

H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### Precautionary statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P285 - In case of inadequate ventilation wear respiratory protection

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P501 - Dispose of contents/ container to an approved waste disposal plant

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

#### Other Hazards Known

Not applicable

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance Not applicable

<u>Mixture</u>

#### **Chemical Family**

Mixture.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane	100-97-0	5 - 10%	-
Sodium sulfate	7757-82-6	<1%	-
Formaldehyde	50-00-0	<0.1%	-
Ammonium sulfate	7783-20-2	<0.01%	-

### **4. FIRST AID MEASURES**

#### Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or

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clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

#### Most important symptoms and effects, both acute and delayed

SymptomsMay cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or<br/>wheezing. Itching. Rashes. Hives.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.
Hazardous combustion products	This material will not burn.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

#### 6. ACCIDENTAL RELEASE MEASURES

U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal
	protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

#### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Reference to other sections	See section 8 for more information. See section 13 for more information.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.
Conditions for safe storage, includi	ng any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
Flammability class	Not applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Formaldehyde	STEL: 0.3 ppm	TWA: 0.75 ppm	IDLH: 20 ppm
CAS#: 50-00-0	TWA: 0.1 ppm	(vacated) TWA: 3 ppm	Ceiling: 0.1 ppm 15 min
		(vacated) STEL: 10 ppm	TWA: 0.016 ppm
		(vacated) Ceiling: 5 ppm	
		STEL: 2 ppm	

Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su Respiratory protection	ch as personal protective equipment No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
General Hygiene Considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

## Physical state Liquid EN / AGHS Page 4/18

Product Code(s) Issue Date 15-Au Version 7.2			Product Name S Revision Date 17 Page 5/18		ndard, 1.0 NTU
Appearance	Turbid solution		Color	Milky white	
Odor	aqueous solution Odorless		Odor threshold	No data ava	ailable
Property		Values			Remarks • Method
Molecular weight	t	No data availa	ble		
рН		8.14			
Melting point/free	ezing point	0 °C / 32 °F			
Boiling point / bo	biling range	100 °C / 212	°F		
Evaporation rate		1 (water = 1) E calculation	stimation based on	theoretical	Estimation based on theoretical calculation
Vapor pressure		17.477 mm Hg	g / 2.33 kPa at 20	°C / 68 °F	Estimation based on theoretical calculation
Vapor density (ai	ir = 1)	0.62			
Specific gravity (	water = 1 / air = 1)	1.02			
Partition Coeffici	ent (n-octanol/water)	Not applicable			
Soil Organic Car Coefficient	bon-Water Partition	Not applicable			
Autoignition tem	perature	No data availa	ble		
Decomposition t	emperature	No data availa	ble		
Dynamic viscosi	ty	No data availa	ble		
Kinematic viscos	sity	No data availa	ble		
Solubilitv(ies)					

## Solubility(ies)

### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

### **Other Information**

**Metal Corrosivity** 

#### **Steel Corrosion Rate Aluminum Corrosion Rate**

No data available No data available

Volatile Organic Compounds (VOC) Content No information available See ingredients information below

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]de	100-97-0	Not applicable	Х

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Chemical name	CAS No. Volatile organic compounds (VOC) content		CAA (Clean Air Act)
cane			
Sodium sulfate	7757-82-6	No data available	-
Formaldehyde	50-00-0	No data available	Х
Ammonium sulfate	7783-20-2	No data available	-

#### **Explosive properties**

Upper explosion limit Lower explosion limit		No data available No data available
Flammable properties		
Flash point		No data available
Flammability Limit in Air Upper flammability limit Lower flammability limit		No data available No data available
Oxidizing properties		No data available.
Bulk density		No data available
Particle Size	No information available	
Particle Size Distribution	No information available	

### **10. STABILITY AND REACTIVITY**

Reactivity Not applicable.

Chemical stability Stability

Stable under normal conditions.

Explosion data Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

<u>Possibility of Hazardous Reactions</u> Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization None under normal processing.

Conditions to avoidNone known based on information supplied.

Incompatible materials Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous Decomposition Products

Ammonia. Carbon monoxide. Formaldehyde. Nitrogen oxides. Sodium oxides. Sulfur oxides.

### **11. TOXICOLOGICAL INFORMATION**

#### Information on Likely Routes of Exposure

Product Code(s) 2659849 Issue Date 15-Aug-2018 Version 7.2	Product Name StablCal <sup>®</sup> Standard, 1.0 NTU Revision Date 17-Aug-2018 Page 7 / 18
Product Information	
Inhalation	May cause sensitization in susceptible persons.
Eye contact	No known effect based on information supplied.
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.
Ingestion	May cause additional affects as listed under "Inhalation".
Symptoms	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives.
Aggravated Medical Conditions	Respiratory disorders. Skin disorders. Allergies.

Toxicologically synergistic None known. products Toxicokinetics, metabolism and See ingredients information below. distribution

Chemical name	Toxicokinetics, metabolism and distribution
,	Readily Absorbed via the respiratory and gastrointestinal routes. Absorbed formaldehyde can be oxidized to formate and carbon dioxide. Half-life of formaldehyde is 1 min in rat plasma.

Product Acute Toxicity Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available No data available No data available No data available No data available

#### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### **Acute Toxicity Estimations (ATE)**

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Ingredient Acute Toxicity Data Oral Exposure Route

Dral Exposure Route If available, see data below						
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data	
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat LD <sub>50</sub>	100 mg/kg	None reported	None reported	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)	
Ammonium sulfate (<0.01%) CAS#: 7783-20-2	Rat LD <sub>50</sub>	2840 mg/kg	None reported	None reported	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)	

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Dermal Exposure Ro Chemical name	Endpoint	Reported	Exposure	If available, see data below Toxicological effects	Key literature references and
	type	dose	time		sources for data
Formaldehyde	Rabbit	270 mg/kg	None	None reported	GESTIS (Information System
(<0.1%)	LD50		reported		on Hazardous Substances of
CAS#: 50-00-0			•		the German Social Accident
					Insurance)
nhalation (Dust/Mist				If available, see data below	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Formaldehyde	Rat	0.578 mg/L	4 hours	None reported	LOLI
(<0.1%)	LC50				
CAS#: 50-00-0					
nhalation (Vapor) Ex		e		If available, see data below	
halation (Gas) Exp	osure Route			If available, see data below	
Product Specific Tar	net Organ To	vicity Single F	vnosure Data		
Dral Exposure Route				No data available	
Dermal Exposure Ro				No data available	
nhalation (Dust/Mist		oute		No data available	
nhalation (Vapor) Ex	posure Route			No data available	
nhalation (Vapor) Ex	posure Route				
nhalation (Vapor) Ex nhalation (Gas) Exp ngredient Specific T	posure Route osure Route arget Organ 1	e	e Exposure Da	No data available No data available ata	
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nhalation (Vapor) Ex nhalation (Gas) Exp ngredient Specific T Dral Exposure Route Chemical name Formaldehyde (<0.1%) CAS#: 50-00-0	arget Organ Endpoint type Human LD⊾₀	e Foxicity Single Reported dose 70 mg/kg	Exposure Da Exposure time None reported	No data available No data available If available, see data below Toxicological effects Gastrointestinal Kidney, Ureter, or Bladder Liver Other changes	sources for data RTECS (Registry of Toxic Effects of Chemical Substances)
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Lungs, Thorax, or

Respiration

Respiratory stimulation

If available, see data below

If available, see data below If available, see data below

If available, see data below

LDLo Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Domestic

mammal -

Not specified

3500 mg/kg

None

reported

Aspiration toxicity No data available

Ammonium sulfate

(<0.01%)

CAS#: 7783-20-2

Product Skin Corrosion/Irritation Data No data available.

Ingredient Skin Corrosion/Irritation Data

EN / AGHS

RTECS (Registry of Toxic Effects of Chemical

Substances)

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Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%) CAS#: 100-97-0	Organization for Economic Co-operation and Development (OECD) - Test 404: Acute Dermal Corrosion/Irritation	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)
Sodium sulfate (<1%) CAS#: 7757-82-6	Standard Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)
Formaldehyde (<0.1%) CAS#: 50-00-0	Standard Draize Test	Human	0.150 mg	72 hours	Corrosive to skin	RTECS (Registry of Toxic Effects of Chemical Substances)
Ammonium sulfate (<0.01%) CAS#: 7783-20-2	Standard Draize Test	Rabbit	800 mg	20 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)

### Product Serious Eye Damage/Eye Irritation Data

No data available.

### Ingredient Eye Damage/Eye Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%) CAS#: 100-97-0	Organization for Economic Co-operation and Development (OECD) - Test 405: Acute Eye Corrosion/Irritation	Rabbit	100 mg	24 hours	Not corrosive or irritating to eyes	ECHA (The European Chemicals Agency)
Sodium sulfate (<1%) CAS#: 7757-82-6	Standard Draize Test	Rabbit	90 mg	24 hours	Not corrosive or irritating to eyes	ECHA (The European Chemicals Agency)
Formaldehyde (<0.1%) CAS#: 50-00-0	Rinse Test	Human	1 ppm	6 minutes	Corrosive to eyes	RTECS (Registry of Toxic Effects of Chemical Substances)
Ammonium sulfate (<0.01%) CAS#: 7783-20-2	Standard Draize Test	Rabbit	0.050 mL	None reported	Not corrosive or irritating to eyes	ECHA (The European Chemicals Agency)

#### **Sensitization Information**

<u>Product Sensitization Data</u> Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route

No data available. No data available.

### Ingredient Sensitization Data

	n Sensitization Exposure Route If available, see data below.						
Chemical name			Results	Key literature references and sources for data			
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%)	OECD Test No. 406: Skin Sensitization	Guinea pig	Confirmed to be a skin sensitizer	ECHA (The European Chemicals Agency)			

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CAS#: 100-97-0									
Sodium sulfate	OECD Test No.	Guinea pig	Not confirmed to be a skin sensitizer	HSDB (Hazardous Substances Data					
(<1%)	406: Skin			Bank)					
CAS#: 7757-82-6	Sensitization								
Formaldehyde	Patch test	Human	Confirmed to be a skin sensitizer	ERMA (New Zealands Environmental					
(<0.1%)				Risk Management Authority)					
CAS#: 50-00-0									
<b>Respiratory Sensitiza</b>	Respiratory Sensitization Exposure Route If available, see data below.								
Chemical name	Test method	Species	Results	Key literature references and					
				sources for data					
1,3,5,7-Tetraazatricyc	Based on human	Human	Confirmed to be a respiratory	HSDB (Hazardous Substances Data					
lo[3.3.1.1(3,7)]decan	experience		sensitizer	Bank)					
е									
(5 - 10%)									
CAS#: 100-97-0									
Formaldehyde	IgE Specific	Guinea pig	Confirmed to be a respiratory	CICAD (Concise International					
(<0.1%)	Immune Response	_	sensitizer	Chemical Assessment Documents)					
CAS#: 50-00-0	Test								

#### **Chronic Toxicity Information**

Product Specific Target Organ Toxicity Repeat Dose Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available. No data available. No data available. No data available. No data available.

### Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route				If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%)	Rat NOAEL	80 mg/kg	None reported	None reported	Vendor SDS
CAS#: 100-97-0					
Dermal Exposure Roi	ute			If available, see data below	
nhalation (Dust/Mist)	Exposure R	oute		If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%) CAS#: 100-97-0	Rat TC⊾₀	350 mg/m³	21 days	Kidney, Ureter, or Bladder Urine volume decreased or anuria Nutritional and Gross Metabolic Weight loss or decreased weight gain Biochemical Enzyme inhibition, induction, or change in blood or tissue levels (true cholinesterase)	
Inhalation (Vapor) Ex	posure Route			If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Human TC∟₀	0.017 mg/L	0.5 days	Eye Lungs, Thorax, or Respiration Lacrimation Other changes	RTECS (Registry of Toxic Effects of Chemical Substances)

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Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Human TC∟₀	2 mg/L	40 minutes	Lungs, Thorax, or Respiration Other changes Respiratory depression	RTECS (Registry of Toxic Effects of Chemical Substances)

Inhalation (Gas) Exposure Route

#### Product Carcinogenicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

If available, see data below

No data available No data available No data available No data available No data available

#### Ingredient Carcinogenicity Data

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
1,3,5,7-Tetraazatricyclo[3.	100-97-0	-	-	-	-
3.1.1(3,7)]decane					
Sodium sulfate	7757-82-6	-	-	-	-
Formaldehyde	50-00-0	A1	Group 1	Known	Х
Ammonium sulfate	7783-20-2	-	-	-	-

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)	Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)	Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of	X - Present
Labor)	

Oral Exposure Route Dermal Exposure Ro Inhalation (Dust/Mist Inhalation (Vapor) Ex	ute ) Exposure Ro			If available, see data below If available, see data below If available, see data below If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Formaldehyde (<0.1%) CAS#: 50-00-0	Rat	15 mg/L	78 weeks	Olfaction Tumors	RTECS (Registry of Toxic Effects of Chemical Substances)

Inhalation (Gas) Exposure Route

If available, see data below

#### Product Germ Cell Mutagenicity *invitro* Data No data available.

#### Ingredient Germ Cell Mutagenicity invitro Data

If available, see data be	f available, see data below							
Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data		
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%) CAS#: 100-97-0	Cytogenetic analysis	Human HeLa Cell	1 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)		
Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data		
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan	Morphological transformation	Hamster kidney	10 mg/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of		

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e (5 - 10%) CAS#: 100-97-0	Chemical Substances)
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Product Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available No data available No data available No data available No data available

Ingredient Germ Cell Mutagenicity invivo Data

ingreatent Germ Ger		Data				
<b>Oral Exposure Route</b>			If available			
Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%) CAS#: 100-97-0	Dominant lethal test	Mouse	25000 mg/kg	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

#### Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route

If available, see data below If available, see data below

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If available		DCIOW

Innalation (Vapor) Ex	cposure Route		IT available	e, see data bei	ow	
Chemical name	Test	Species	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Formaldehyde	Micronucleus test	Human	.000985 mg/L	8.5 years	Positive test result for	RTECS (Registry
(<0.1%)			_		mutagenicity	of Toxic Effects of
CAS#: 50-00-0						Chemical
						Substances)
Chemical name	Test	Species	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Formaldehyde	Micronucleus test	Human	2 mg/L	15 minutes	Positive test result for	RTECS (Registry
(<0.1%)					mutagenicity	of Toxic Effects of
CAS#: 50-00-0						Chemical
						Substances)

Inhalation (Gas) Exposure Route

Product Reproductive Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below

No data available No data available No data available No data available No data available

### Ingredient Reproductive Toxicity Data

ingreulent Keproduc	live roncity i								
Oral Exposure Route	Oral Exposure Route If available, see data below								
Chemical name Endpoint Reported			Exposure	Toxicological effects	Key literature references and				
	type	dose	time		sources for data				
Sodium sulfate	Mouse	14000 mg/kg	4 days	Effects on Newborn	RTECS (Registry of Toxic				
(<1%)	TDLo			Other neonatal measures or	Effects of Chemical				
CAS#: 7757-82-6				effects	Substances)				
Dermal Exposure Ro	ute			If available, see data below					
Inhalation (Dust/Mist	) Exposure R	oute		If available, see data below					
Inhalation (Vapor) Ex	posure Route	9		If available, see data below					
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and				
	type	dose	time	_	sources for data				
Formaldehyde	Rat	40 mg/L	14 days	Effects on Embryo or Fetus	RTECS (Registry of Toxic				

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(<0.1%)	TCLO			Fetotoxicity (except death e.g.	Effects of Chemical
CAS#: 50-00-0				stunted fetus)	Substances)
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Formaldehyde	Rat	.001 mg/L	24 weeks	Effects on Embryo or Fetus	RTECS (Registry of Toxic
(<0.1%)	TCLO	-		Cytological changes (including	Effects of Chemical
CAS#: 50-00-0				somatic cell genetic material)	Substances)
Inhalation (Gas) Exposure Route If available, see data below					

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae

### **Ingredient Ecological Data**

### Aquatic toxicity

No data available No data available

No data available

Fish		lf a	available, see i	ngredient data	below
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium sulfate (<1%) CAS#: 7757-82-6	96 hours	None reported	LC <sub>50</sub>	56 mg/L	IUCLID (The International Uniform Chemical Information Database)
Formaldehyde (<0.1%) CAS#: 50-00-0	96 hours	Morone saxatilis	LC <sub>50</sub>	6.7 mg/L	PEEN (Pan European Ecological Network)
Ammonium sulfate (<0.01%) CAS#: 7783-20-2	96 hours	Oncorhynchus mykiss	LC <sub>50</sub>	36.7 mg/L	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
Crustacea		If a	available, see i	ngredient data	below
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium sulfate (<1%) CAS#: 7757-82-6	48 Hours	Daphnia magna	EC <sub>50</sub>	3150 mg/L	IUCLID (The International Uniform Chemical Information Database)
Formaldehyde (<0.1%) CAS#: 50-00-0	48 Hours	Daphnia pulex	EC <sub>50</sub>	5.8 mg/L	PEEN (Pan European Ecological Network)
Ammonium sulfate (<0.01%) CAS#: 7783-20-2	48 Hours	None reported	LC <sub>50</sub>	14 mg/L	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
Δlaae		lf -	i aas aldelieve	ngredient data	halow

#### Algae

If available, see ingredient data below

#### **Other Information**

#### Persistence and degradability

**Product Biodegradability Data** No data available.

#### Ingredient Biodegradability Data

Chemical name	Test method	Biodegradation	Exposure time	Results
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%) CAS#: 100-97-0	None reported	70%	28 days	Readily biodegradable

#### **Bioaccumulation**

#### **Product Bioaccumulation Data**

No data available.

#### Partition Coefficient (n-octanol/water)

Not applicable

#### Ingredient Bioaccumulation Data

Chemical name	Test method	Exposure time	Species	Bioconcentrat ion factor (BCF)	Results
1,3,5,7-Tetraazatricyc lo[3.3.1.1(3,7)]decan e (5 - 10%) CAS#: 100-97-0	None reported	None reported	None reported	None reported	Not determined
Formaldehyde (<0.1%) CAS#: 50-00-0	Estimation through BCFBAF v3.01 part of the Estimation Programs Interface (EPI) Suite™	None reported	None reported	BCF = 3.16228	Does not have the potential to bioaccumula te

#### Mobility

#### Soil Organic Carbon-Water Partition Coefficient

Not applicable

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other adverse effects

Contains a substance with an endocrine-disrupting potential.

### **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods					
Waste from residues/unused products	ed Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.				
Contaminated packaging	Do not reus	se empty containers.			
US EPA Waste Number	U122				
Chemical name	RCRA	RCRA - Basis for	RCRA - D Series	RCRA - U Series	

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		Listing	Wastes	Wastes
Formaldehyde	U122	Included in waste	-	U122
50-00-0		streams: K009, K010,		
		K038, K040, K156, K157		

### 14. TRANSPORT INFORMATION

U.S. DOT Special Provisions	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated
Note:	No special precautions necessary.

#### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

#### **15. REGULATORY INFORMATION**

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories	
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Does not comply
KECL	Complies
PICCS	Does not comply
TCSI	Does not comply
AICS	Does not comply
NZIOC	Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**TCSI** - Taiwan Chemical Substances Inventory

**ICSI** - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

### **US Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Formaldehyde (CAS #: 50-00-0)	0.1
Ammonium sulfate (CAS #: 7783-20-2)	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde 50-00-0	100 lb	-	-	Х

#### **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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Formaldehyde	100 lb	100 lb	RQ 100 lb final RQ
50-00-0			RQ 45.4 kg final RQ

#### U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

Chemical name	U.S Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues
Formaldehyde (<0.1%)	Release - Toxic (solution)
CAS#: 50-00-0	

#### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Formaldehyde (CAS #: 50-00-0)	Carcinogen

WARNING: This product can expose you to chemicals including Formaldehyde, which is known to the State of California to cause cancer.

For more information, go to <u>http://www.P65Warnings.ca.gov</u>

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
1,3,5,7-Tetraazatricyclo[3.3.1.1( 3,7)]decane 100-97-0	Х	-	-

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Sodium sulfate 7757-82-6	-	Х	Х
Formaldehyde 50-00-0	Х	Х	Х
Ammonium sulfate 7783-20-2	-	Х	Х

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane	180.0910	-
Sodium sulfate	-	21 CFR 186.1797
Ammonium sulfate	180.0910	21 CFR 184.1143

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### Special Comments

None

#### **Additional information**

### Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane 100-97-0	Declarable Substance (FI)	0.1 %
Formaldehyde	Declarable Substance (FI)	0.0 %
50-00-0	Prohibited Substance (LR)	0.1 %
	Declarable Substance (LR)	

### **NFPA and HMIS Classifications**

NFPA	Health hazards - 2	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 2	Flammability - 0	Physical Hazards - 0	Personal protection - X
				- See section 8 for more
				information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF		Immediately Dangerous to Life or Health ACGIH (American Conference of Governmer no data		al Industrial Hygienists)
Legend - Section	n 8: EXPOSURE CONTROLS	/PERSONAL PROTEC	CTION	
TWA	TWA (time-weighted averag	e) STEL	L	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concer	tration Ceilin	ng	Ceiling Limit Value
Х	Listed	Vacat		These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

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				regulations.
SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Complianc	e Department	
Issue Date		15-Aug-2018		
Revision Date		17-Aug-2018		
<b>Revision Note</b>		None		
<b>Disclaimer</b>				

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet