

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/06/2015

1.       Product identifier         Product form       :       Muture         Product rane       :       Scub Brile         Product code       :       125         Bit on       :       05307         1.2.       Relevant identified uses of the substance or mixture and uses advised against         Use of the substance of the substance or mixture and uses advised against         1.3.       Details of the substance or mixture and uses advised against         Ace Chemical Products, Inc.       Amerial Scale Remover; Acid Cleaning Compound         1.4.       Energy telephone number         1.7.       Chestification         1.8.       Energy telephone number         1.1.       Chestification         1.1.       Chestification         2.1.       Chestification         1.3.       Detailer of the substance or mixture         CHS4SS classified       Chestification         1.4.       Energy telephone number       .         2.1.       Chestification       Chestification         Not classified	<b>SECTION 1: Identification of the sub</b>	ostance/mixture and of the company/undertaking	
Product name : Scrub Brite Product code : 1125 BC no : 05607 1. Relevant Identified uses of the substance or mature and uses advised against Use of the substance/mixture : Mineral Scale Remover, Acid Cleaning Compound : 1. Details of the subplier of the safety data sheet Aca Chemical Products, Inc. 815 N. 878 N Street Minvaluee, WI 55224 - USA 17. Cheerengery telephone number Emergency number : For help in chemical emergencies, call Chemitrec day or night Chemice 1-800-424-9300 ESECTION 2: Hazards Identification 1. Classification of the substance or mixture 615-0.878 N Street 615-0.878 N Street 815 N. 878 N Street 1. Classification of the substance or mixture 615-0.878 N Street 615-0.878 N Street	1.1. Product identifier		
Product code       : 6125         BiG no       : 05307         12.       Relevant Identified uses of the substance or mixture and uses advised against         Use of the substance/mixture       : Mineral Scale Remover; Acid Cleaning Compound         13.       Details of the substance mixture and uses advised against         Ace Chemical Products, Inc.       Restrict a substance/mixture         Ace Chemical Products, Inc.       Restrict a substance/mixture         Misagaacethen.com       : For help in chemical emergencies, call Chemirec day or night         T(414) 357-8515 - F(414) 357-8528       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies, call Chemirec day or night         Chemical Products, Inc.       : For help in chemical emergencies,	Product form	: Mixture	
BIG no. : : : : : : : : : : : : : : : : : : :	Product name	: Scrub Brite	
12.       Relevant identified uses of the substance or mixture and uses advised against         Use of the substance/mixture       : Mineral Scale Remover. Add Cleaning Compound         13.       Details of the supplier of the safety data sheet         Ace Chemical Products, Inc.       Relevant identified uses of the substance/mixture         #15 N. Street       Mineral Scale Remover. Add Cleaning Compound         14.       Emergency totaphone number         Energency runnber       : For help in chemical emergencies, call Chemtrec day or night         Chemical Interpretation       Chemical Emergency totaphone number         Energency totaphone number       : For help in chemical emergencies, call Chemtrec day or night         Chemical Interpretation       : Statistication         Not classified       : Statistication         2.1.       Classification         Not classified       : Statistication         Plazard pictograms (GHS-US)       : Statistication         Relevant identified uses of the substance or mixture       : Classes severe skin burns and eye damage         Hazard statements (GHS-US)       : Statistication         Hazard statements (GHS-US)       : State on the dust, mist, spray         P264. Wash all exposed body parts thoroughly after handling       P280. Wash all exposed body parts thoroughly after handling         P280. Wash all exposed body parts	Product code	: 6125	
Use of the substance/mixture       :       Mineral Scale Remover; Acid Cleaning Compound         1.3.       Details of the supplier of the safety data sheet         Ace Chemical Products, inc.       Mile Na 377-8515 - F (414) 357-8528 info@ace-them.com         1.4.       Emergency tolephone number         Emergency number       :       For help in chemical emergencies, call Chemtrec day or night         Chemiter 1-800-424-9300       :       For help in chemical emergencies, call Chemtrec day or night         Chemiter 1-800-424-9300       :       :       :         CHECTION 2: Hazards Identification       :       :       :         CHS-US classification       :       :       :         Not classified       :       :       :       :         Signal word (GHS-US)       :       :       :       :       :         Precautionary statements (GHS-US)       :	BIG no	: 05307	
3.3. Details of the supplier of the safety data sheet         Ace Chemical Products, Inc.         Bif SN & 37h Street         Milvaukez, WI 53224 - USA         T (141) 337-3515 - F (141) 357-3528         Info@acchem.com - www acchem.com         1.4.       Emergency telephone number         Emergency number <ul> <li>F or help in chemical emergencies, call Chemtrec day or night Chemtrec 1-800-424-9300</li> <li>SECTION 2: Hazards Identification</li> <li>Not classification of the substance or mixture</li> <li>GHS-US classification</li> <li>Not classified</li> <li>2.2. Label elements</li> <li>GHS-US classification</li> <li>Not classified</li> <li>E Danger</li> <li>Hazard pictograms (GHS-US)</li> <li>E Danger</li> <li>H314 - Causes severe skin burns and eye damage H227 - Combustible liquid H320 - May be corrosive to metals</li> <li>Precautionary statements (GHS-US)</li> <li>E 27020- Do not breathe dust, mixis, spray P284 - Wash all exposed body parts throughly after handing P280 - Wash all exposed body parts throughly after handing P280 - Wash all exposed body parts throughly after handing P280 - Wash all exposed body parts throughly after handing P280 - P301 - P331 - If maylik (meacuring) and through both in mudicity all contaminated clothing. Rinse Slin with water/shower</li> <li>P301 - P330 - P331 - If maylik (meacuring) and through both minediately all contaminated clothing. Rinse Slin with water/shower</li> <li>P305 - P305 - P331 - If maylik (meacures on this label P305 - P305 - P331 - If maylik (meacures on this label P305 - P305 - P331 - If maylik (meacures on this label P305 - P305 - P331 - If maylik (meacures on this label P305 - P305 - P305 - P305 - P305 - P305 - P305 - P30</li></ul>	1.2. Relevant identified uses of the sub-	stance or mixture and uses advised against	
Ace Chemical Products Inc. Bit IS N 871 N 671 No. 193224 - USA T (14) 357 - 573 1937 - 572828 Intr@Boschem.com - www.acechem.com 1.4. Emergency telephone number Emergency number 2.1. Classification Not classified 2.2. Label elements GHS-US classification Not classified 2.2. Label elements GHS-US (14) 357 - 573 - 278 Signal word (CHS-US) Hazard pictograms (GHS-US) Eignal word (CHS-US) Frecaulionary statements (GHS-US) Frecaulionary statement (Frecaucing Statement Frecaucing Statement Frecaucing Statement Frecaucing Stat	Use of the substance/mixture	: Mineral Scale Remover; Acid Cleaning Compound	
B415 N. 27th Street         Millbaukee, Will S37: 4515 - F (414) 357: 4528 info@gacehem.com         1.4.       Emergency telephone number         Emergency number       : F or help in chemical emergencies, call Chemtrec day or night Chemtrec 1:400:424-9300         SECTION 2: Hazards Identification         Statistication Not classification         Not classification         Not classification         Output: Statistication         Output: Statistication         Not classification         Output: Statistication         Stignal word (GHS-US)       : Statistication         Hazard statements (GHS-US)       : H314 - Causes severe skin burns and eye damage         Precautionary statements (GHS-US)       : P 260 - Do no the the dust, mist, stray <td co<="" td=""><td>1.3. Details of the supplier of the safety</td><td>data sheet</td></td>	<td>1.3. Details of the supplier of the safety</td> <td>data sheet</td>	1.3. Details of the supplier of the safety	data sheet
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Not classified         2.2.       Label elements         GHS-US labelling         Hazard pictograms (GHS-US)       :          Signal word (GHS-US)       :          Hazard statements (GHS-US)       : Danger         Hazard statements (GHS-US)       : Danger         Hazard statements (GHS-US)       : Danger         Precautionary statements (GHS-US)       : P260 - Do not breathed dust, mist, spray         P264 - Wash all exposed body parts thoroughly after handling       P280 - Do not breathed dust, mist, spray         P264 - Wash all exposed body parts thoroughly after handling       P200 - Wear eye protection, face protection, protective ciothing, protective gloves         P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing       P304+P334 - 1 if swallowed: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Confinue of resh air and keep comfortable for breathing         P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing         P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing         P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing         P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing         P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing         P304-P340 - Store in corrosion-resistant container	2.1. Classification of the substance or r	nixture	
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GHS-US labelling         Hazard pictograms (GHS-US)       :         Signal word (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         P260 - Do not breathe dust, mist, spray         P264 - Wash all exposed body parts throughly after handling         P280 - Wear eve protection, face protection, protective clothing, protective gloves         P303+P331 - If swallowed: rinse mouth. Do NOT induce vomiting         P303+P331 - If swallowed: rinse mouth. Do NOT induce vomiting         P303+P331 - If swallowed: rinse could water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing         P310 - immediately call a doctor, a POISON CENTER         P321 - Specific treatment - see First Aid measures on this label         P332 - Wash contaminated clothing before reuse         P405 - Store locked up         P406 - Store in corrosion-resistant container with a resistant inner liner         P501 - Dispose of contents/container to proper treatment facilities in accordance with a	Not classified		
GHS-US labelling         Hazard pictograms (GHS-US)       :         Signal word (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Hazard statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         Precautionary statements (GHS-US)       :         P260 - Do not breathe dust, mist, spray         P264 - Wash all exposed body parts throughly after handling         P280 - Wear eye protection, face protection, protective clothing, protective gloves         P303+P331 - If swallowed: rinse mouth. Do NOT induce vomiting         P303+P331 + If swallowed: rinse mouth. Do NOT induce vomiting         P303+P331 + If swallowed: rinse mouth. Do NOT induce vomiting         P303+P331 + If swallowed: rinse callously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing         P310 - Immediately call a doctor, a POISON CENTER         P321 - Specific treatment - see First Aid measures on this label         P332 - Wash contaminated clothing before reuse         P405 - Store locked up         P405 - Store in corrosion-resistant container with a resistant inner liner			
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Signal word (GHS-US)       : Danger         Hazard statements (GHS-US)       : H314 - Causes severe skin burns and eye damage H227 - Combustible liquid H290 - May be corrosive to metals         Precautionary statements (GHS-US)       : P260 - Do not breathe dust, mist, spray P264 - Wash all exposed body parts thoroughly after handling P280 - Wear eye protection, protective clothing, protective gloves P301+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P333 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower         P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If on eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER P321 - Specific treatment - see First Aid measures on this label P363. Wash contaminated clothing before reuse P405 - Store locked up P406 - Store locked up P406 - Store in corrosion-resistant container to proper treatment facilities in accordance with all applicable local, state & federal regulations Do not mix with bleach or other chlorinated products - may generate dangerous chlorine gas         2.3       Other hazards         Other hazards       : None under normal conditions.	GHS-US labelling		
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Other hazards not contributing to the : None under normal conditions.	Precautionary statements (GHS-US)	<ul> <li>P264 - Wash all exposed body parts thoroughly after handling</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a doctor, a POISON CENTER</li> <li>P321 - Specific treatment - see First Aid measures on this label</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P405 - Store locked up</li> <li>P406 - Store in corrosion-resistant container with a resistant inner liner</li> <li>P501 - Dispose of contents/container to proper treatment facilities in accordance with all applicable local, state &amp; federal regulations</li> </ul>	
•	2.3. Other hazards		
		: None under normal conditions.	

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2.4. Unknown acute toxicity (GHS-L	JS)			
Not applicable				
SECTION 3: Composition/inform	ation on	ingredients		
3.1. Substance				
Not applicable				
3.2. Mixture				
Name		Product identifier	%	GHS-US classification
sulfamic acid		(CAS No) 5329-14-6	90 - 100	Skin Corr. 1A, H314
Full text of H-phrases: see section 16				
SECTION 4: First aid measures				
4.1. Description of first aid measure	s			
First-aid measures general	arre witl Voi wa phy mo	est: artificial respiration or oxygen. ( h laboured breathing: half-seated. V miting: prevent asphyxia/aspiration rming up). Keep watching the victim vsical strain. Depending on the victil	Cardiac arrest: perfor /ictim in shock: on his pneumonia. Prevent n. Give psychological m's condition: doctor u feel unwell, seek m	s back with legs slightly raised. cooling by covering the victim (no aid. Keep the victim calm, avoid /hospital. Never give anything by nedical advice (show the label where
First-aid measures after inhalation	: Re	move the victim into fresh air. Resp	iratory problems: cor	sult a doctor/medical service.
First-aid measures after skin contact	age wo	ish immediately with lots of water (1 ents. Remove clothing while washin unds with sterile bandage. Consult tim to hospital.	g. Do not remove clo	
First-aid measures after eye contact	eas	se immediately with plenty of water sy to do. Continue rinsing. Cover ey oly neutralizing agents. Obtain medi	es aseptically. Take	victim to an ophthalmologist. Do not
First-aid measures after ingestion	vor PO	ise mouth with water. Immediately a niting. Do not give activated charco ISON CENTER or doctor/physician estion of large quantities: immediate	al. Do not give chem . Take the container/	ical antidote. Immediately call a
4.2. Most important symptoms and	effects, bot	h acute and delayed		
Symptoms/injuries	: Ca	uses severe skin burns and eye dar	mage.	
Symptoms/injuries after inhalation	me	ughing. Dry/sore throat. Irritation of mbranes. FOLLOWING SYMPTOM g oedema.		Irritation of the nasal mucous TER: Respiratory difficulties. Risk o
Symptoms/injuries after skin contact	: Ca	ustic burns/corrosion of the skin.		
Symptoms/injuries after eye contact	: Co	rrosion of the eye tissue.		
Symptoms/injuries after ingestion	: Bui AB	rns to the gastric/intestinal mucosa. SORPTION OF HIGH QUANTITIES	Nausea. Abdominal S: Shock.	pain. Blood in vomit. AFTER
Chronic symptoms		CONTINUOUS/REPEATED EXPO		Dry skin. Red skin.
4.3. Indication of any immediate me	dical attent	ion and special treatment needed	d d	
No additional information available				
SECTION 5: Firefighting measur	es			
5.1. Extinguishing media				
Suitable extinguishing media	· 04	apt extinguishing media to the envir	ronment	
Unsuitable extinguishing media		unsuitable extinguishing media kno		
		5 5		
5.2. Special hazards arising from th Fire hazard		e or mixture RECT FIRE HAZARD. Non combusi		E HAZARD Reactions involving a
		hazard: see "Reactivity Hazard".		
Explosion hazard	: INE	DIRECT EXPLOSION HAZARD. Re	actions with explosic	on hazards: see "Reactivity Hazard".
Reactivity		composes slowly on exposure to wa		

Decomposes slowly on exposure to water (moisture): release of corrosive products. This reaction is accelerated on exposure to temperature rise. Reacts on exposure to water (moisture) with (some) metals: release of highly flammable gases/vapours (hydrogen). On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides). Reacts violently with (strong) oxidizers. Reacts exothermically with (some) bases.

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5.3. Advice for firefighters	
Precautionary measures fire	Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	<ul> <li>Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.</li> </ul>
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit. See "Material-Handling" to select protective clothing.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent soil and water pollution. Prevent sprea	ding in sewers.
6.3. Methods and material for containm	nent and cleaning up
For containment	Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain. Knock down/dilute dust cloud with water spray. Collect spillage.
Methods for cleaning up	Prevent dust cloud formation. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
6.4. Reference to other sections	

No additional information available

SECTION 7: Handling and storage	je
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
Hygiene measures	: Wash all exposed body parts thoroughly after handling all exposed body parts . Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	Keep only in the original container in a cool, well ventilated place away from : direct sunlight, heat sources. Keep container closed when not in use.
Incompatible products	: Strong bases. Do not mix with bleach or other chlorinated products - may generate dangerous chlorine gas.
Incompatible materials	: Sources of ignition. Direct sunlight.
Maximum storage period	: 1 year
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. halogens. water/moisture.
Storage area	: Store in a cool area. Keep out of direct sunlight. Store in a dry area. Store in a dark area. Keep locked up. Provide for a tub to collect spills. Keep only in the original container. Meets the legal requirements.
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Special rules on packaging

: SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials

: SUITABLE MATERIAL: cardboard. plastics. MATERIAL TO AVOID: No data available.

7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

.1. Control parameters		
Scrub Brite		
ACGIH	Not applicable	
OSHA	Not applicable	
sulfamic acid (5329-14-6)		
ACGIH	Not applicable	
OSHA	Not applicable	
.2. Exposure controls		
laterials for protective clothing	<ul> <li>GIVE EXCELLENT RESISTANCE: natural rubber. neoprene. polyethylene. PVC. tetrafluoroethylene. GIVE LESS RESISTANCE: nitrile rubber. GIVE POOR RESISTANCE: PVA.</li> </ul>	
and protection	: Gloves.	
ye protection	: Face shield.	
kin and body protection	: Corrosion-proof clothing.	
ECTION 9: Physical an	d chemical properties	
SECTION 9: Physical and chemical properties		
	physical and chemical properties	
hysical state	: Solid	

9.1. Information on basic physical and c	hemical properties
Physical state	: Solid
Appearance	: Granular powder.
Molecular mass	: 98.08 g/mol
Colour	: Off-white to beige
Odour	: Characteristic odour;acidic
Odour threshold	: 0.25 ppm 4 mg/m <sup>3</sup>
рН	: No data available
pH solution	: 2-4
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -2520 °C
Freezing point	: 0 °C
Boiling point	: 100 - 120 °C
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 340 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.1 - 1.4
Density	: 1.07 g/ml
Solubility	: Soluble in water. Water: 18 %
Log Pow	: -2.20 (Estimated value)
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: None.

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Oxidising properties	: None.
Explosive limits	: Not applicable Not applicable
9.2. Other information	
Minimum ignition energy	: Not applicable
VOC content	: 0 % Not applicable
Other properties	<ul> <li>Gas/vapour heavier than air at 20°C. Clear. Physical properties depending on the concentration. Slightly volatile. Substance has acid reaction.</li> </ul>

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Decomposes slowly on exposure to water (moisture): release of corrosive products. This reaction is accelerated on exposure to temperature rise. Reacts on exposure to water (moisture) with (some) metals: release of highly flammable gases/vapours (hydrogen). On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides). Reacts violently with (strong) oxidizers. Reacts exothermically with (some) bases.

10.2.	Chemical stability
Stable u	under normal conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
No addi	itional information available
10.5.	Incompatible materials
No addi	itional information available
10.6.	Hazardous decomposition products
No add	itional information available

SECTI	ON 11: Toxicological information
11.1.	Information on toxicological effects

: Not classified

sulfamic acid (5329-14-6)		
LD50 oral rat		3160 mg/kg bw/day (Rat; Literature study)
LD50 dermal rat		> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity		Not classified
,	:	
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated	:	Not classified
exposure)		
Aspiration hazard	:	Not classified
Symptoms/injuries after inhalation	:	Coughing. Dry/sore throat. Irritation of the respiratory tract. Irritation of the nasal mucous
		membranes. FOLLOWING SYMPTOMS MAY APPEAR LATER: Respiratory difficulties. Risk of lung oedema.
Symptoms/injuries after skin contact	:	Caustic burns/corrosion of the skin.
Symptoms/injuries after eye contact		Corrosion of the eve tissue.
5 1 5 5	:	5
Symptoms/injuries after ingestion	•	Burns to the gastric/intestinal mucosa. Nausea. Abdominal pain. Blood in vomit. AFTER ABSORPTION OF HIGH QUANTITIES: Shock.
Chronic symptoms	:	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Red skin.

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<b>SECTION 12: Ecological information</b>	
2.1. Toxicity	
cology - general	: Classification concerning the environment: not applicable.
cology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
cology - water	: Mild water pollutant (surface water). Ground water pollutant. Maximum concentration in drinking water: 250 mg/l (sulfate) (Directive 98/83/EC). Harmful to fishes. Harmful to invertebrates (Daphnia). Toxic to plankton. pH shift. Inhibition of activated sludge.
Scrub Brite	
LC50 fish 1	42 mg/l (96 h; Gambusia affinis; Pure substance)
EC50 Daphnia 1	29 mg/l (24 h; Daphnia magna; Pure substance)
LC50 fish 2	49 mg/l (48 h; Lepomis macrochirus; Pure substance)
TLM fish 1	42 mg/l (96 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	6900 mg/l (24 h; Pseudomonas fluorescens; Pure substance)
sulfamic acid (5329-14-6)	
LC50 fish 1	> 14.2 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	1.6 mg/l (48 h; Daphnia magna; GLP)
EC50 other aquatic organisms 1	>= 1000 mg/l (16 h; Pseudomonas putida)
LC50 fish 2	70.3 mg/l (96 h; Pimephales promelas)
Threshold limit algae 1	48 mg/l (72 h; Desmodesmus subspicatus; GLP)
2.2. Persistence and degradability	
Scrub Brite	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
sulfamic acid (5329-14-6)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on
r croioterioe and degradability	mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
2.3. Bioaccumulative potential	
Scrub Brite	
Log Pow	-2.20 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
sulfamic acid (5329-14-6)	
Log Pow	0.10 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2.4. Mobility in soil	
sulfamic acid (5329-14-6)	
	Toxic to flora.
Ecology - soil	
Ecology - soil	
Ecology - soil 2.5. Other adverse effects	
Ecology - soil	· · ·

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13.1. Waste treatment methods	
Naste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove for physico-chemical/biological treatment. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery.
SECTION 14: Transport information	
n accordance with DOT	
Transport document description	: UN2967 Sulfamic acid mixture, 8, III
JN-No.(DOT)	: UN2967
Proper Shipping Name (DOT)	: Sulfamic acid
	mixture
Hazard Classes (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
	8
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
OOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Emergency Response Guide (ERG) Number	: 154
	: No supplementary information available.
Other information	
Other information ADR No additional information available	
ADR	

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#### Air transport

No additional information available

5: Regulatory information 5.1. US Federal regulations	
Scrub Brite	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Reactive hazard

#### 15.2. International regulations

CANADA No additional information available

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

C; R35

Full text of R-phrases: see section 16

15.2.2. National regulations

#### 15.3. US State regulations

### **SECTION 16: Other information**

Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H314	Causes severe skin burns and eye damage
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	<ul> <li>1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.</li> </ul>
HMIS III Rating	
Health	3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 1 Slight Hazard

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product