

## SAFETY DATA SHEET

in accordance with REACH (1907/2006/EC, as amended by 2015/830/EU)

**Revision date:** 11 February 2020

**Initial date of issue:** 13 July 2007

**SDS No.** 410B-6

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

ARC S1HB (Part B)

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

For use as a high build coating on properly prepared surfaces where mild chemical and abrasion exposures are anticipated.

#### 1.3. Details of the supplier of the safety data sheet

**Company:**

A.W. CHESTERTON COMPANY  
860 Salem Street  
Groveland, MA 01834-1507, USA  
Tel. +1 978-469-6446 Fax: +1 978-469-6785  
(Mon. - Fri. 8:30 - 5:00 PM EST)  
SDS requests: [www.chesterton.com](http://www.chesterton.com)  
E-mail (SDS questions): [ProductSDSs@chesterton.com](mailto:ProductSDSs@chesterton.com)  
E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

**Supplier:**

EU: Chesterton International GmbH, Am Lenzenfleck 23,  
D85737 Ismaning, Germany – Tel. +49-89-996-5460

#### 1.4. Emergency telephone number

24 hours per day, 7 days per week  
Call Infotrac: +1 352-323-3500 (collect)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

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

Acute toxicity, Category 4, H302  
Skin corrosion, Category 1C, H314  
Serious eye damage, Category 1, H318  
Skin sensitization, Category 1, H317  
Specific target organ toxicity – repeated exposure, Category 2, H373 (oral)  
Hazardous to the aquatic environment, Acute, Category 1, H400  
Hazardous to the aquatic environment, Chronic, Category 1, H410

##### 2.1.2. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

#### 2.2. Label elements

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

**Hazard pictograms:**



**Signal word:**

Danger

**Hazard statements:**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

<b>Precautionary statements:</b>	P260	Do not breathe mist/spray.
	P264	Wash hands thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/clothing and eye/face protection.
	P303/361/353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P301/330/331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P310	Immediately call a POISON CENTER or doctor.
	P314	Get medical advice/attention if you feel unwell.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.

**Supplemental information:**

None

**2.3. Other hazards**

The safety and health hazards are detailed separately for Part A and Part B. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Part A and Part B.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP Classification
Methyleneoxide, polymer with benzenamine, hydrogenated	20-50	135108-88-2 603-894-6	NA	Acute Tox. 4, H302 Skin Corr. 1C, H314 Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Chronic 3, H412
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	25-30	68953-36-6 273-201-6	NA	Skin Corr. 1C, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M-factor 10) Aquatic Chronic 1, H410 (M-factor 1)
Benzyl alcohol	10-20	100-51-6 202-859-9	NA	Acute Tox. 4, H302, H332 Eye Irrit. 2, H319
Tetraethylenepentamine	5-10	112-57-2 203-986-2	NA	Acute Tox. 4, H302, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411
N-(3-(trimethoxysilyl)propyl)ethylenediamine	0.1-0.9	1760-24-3 <a href="#">217-164-6</a>	NA	Acute Tox. 4, H332 Eye Dam. 1, H318 Skin Sens. 1, H317
Other ingredients: Silica (Quartz)	1-3	14808-60-7 238-878-4	NA	Not classified*

For full text of H-statements: see SECTION 16.

\*Substance with a workplace exposure limit.

<sup>1</sup> Classified according to: 1272/2008/EC, REACH**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

<b>Inhalation:</b>	Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.
<b>Skin contact:</b>	Flood area with water while removing contaminated clothing. Wash clothing before reuse. Consult physician.
<b>Eye contact:</b>	Flush eyes for at least 30 minutes with large amounts of water. Contact physician.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Contact physician immediately.
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. Do not breathe mist. See section 8.2.2 for recommendations on personal protective equipment.

**4.2. Most important symptoms and effects, both acute and delayed**

Irritating to skin. Risk of serious damage to eyes. High vapor concentrations and mist can cause severe eye and respiratory tract irritation, headache, dizziness, nausea and possibly shortness of breath. Harmful if swallowed. Repeated contact may cause skin sensitization or an allergic reaction.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

**Suitable extinguishing media:** Carbon dioxide, dry chemical, foam or water fog

**Unsuitable extinguishing media:** No data available

**5.2. Special hazards arising from the substance or mixture**

May generate: ammonia gas, toxic nitrogen oxide gases. Incomplete combustion may form carbon monoxide. Use of water may result in the formation of very toxic aqueous solutions.

**5.3. Advice for firefighters**

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.

**6.2. Environmental Precautions**

Keep out of sewers, streams and waterways.

**6.3. Methods and material for containment and cleaning up**

Scoop up and transfer to a suitable container for disposal. Flush final traces of spill with water.

**6.4. Reference to other sections**

Refer to section 13 for disposal advice.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Utilize exposure controls and personal protection as specified in Section 8. Do not breathe mist/spray. Do not contaminate with sodium nitrite or other nitrosating agents, which could cause the formation of cancer-causing nitrosamine. Remove contaminated clothing immediately. Wash clothing before reuse. Contaminated leather including shoes cannot be decontaminated and should be discarded. Avoid creating and breathing dust during removal, drilling, grinding, sawing or sanding. Do not eat, drink or smoke when using this product.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry area.

**7.3. Specific end use(s)**

No special precautions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limit values**

Ingredients	ACGIH TLV <sup>1</sup>		UK WEL <sup>2</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Methyleneoxide, polymer with benzenamine, hydrogenated	N/A	N/A	N/A	N/A
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	N/A	N/A	N/A	N/A
Benzyl alcohol	N/A	N/A	N/A	N/A
Tetraethylenepentamine	N/A	N/A	N/A	N/A
N-(3-(trimethoxysilyl)propyl)ethylenediamine	N/A	N/A	N/A	N/A
Silica (Quartz)	(resp.)	0.025	N/A	0.1

<sup>1</sup> American Conference of Governmental Industrial Hygienists threshold limit values

<sup>2</sup> EH40 Workplace exposure limits, Health & Safety Executive

**Biological limit values**

Not available

**Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:****Workers**

Substance	Route of exposure	Potential health effects	DNEL
Benzyl alcohol	Inhalation	Acute effects, local / Chronic effects, local	No data available
		Acute effects, systemic	110 mg/m <sup>3</sup>
		Chronic effects, systemic	22 mg/m <sup>3</sup>
	Dermal	Acute effects, local / Chronic effects, local	No data available
		Acute effects, systemic	40 mg/kg bw/day
		Chronic effects, systemic	8 mg/kg bw/day
N-(3-(trimethoxysilyl)propyl)ethylenediamine	inhalation	Chronic effects, systemic	35.3 mg/m <sup>3</sup>
	Dermal	Acute effects, systemic	5 mg/kg bw/day
		Chronic effects, systemic	5 mg/kg bw/day

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:**

Substance	Environmental protection target	PNEC
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Water, intermittent release	2.3 mg/l
	Freshwater sediments	5.27 mg/kg
	Marine sediments	0.527 mg/kg
	Microorganisms in sewage treatment	39 mg/l
	Soil (agricultural)	0.456 mg/kg
	Food chain	No hazard identified
N-(3-(trimethoxysilyl)propyl)ethylenediamine	Fresh water	0.062 mg/l
	Freshwater sediments	0.048 mg/kg
	Marine water	0.0062 mg/l
	Marine sediments	0.0048 mg/kg
	Microorganisms in sewage treatment	25 mg/l
	Soil (agricultural)	0.0075 mg/kg

**8.2. Exposure controls****8.2.1. Engineering measures**

Provide sufficient ventilation to keep the concentrations below the exposure limits. If it is necessary to alter the final cured product such that dust may be generated, use adequate dust extraction or damp down.

**8.2.2. Individual protection measures**

**Respiratory protection:** Not normally needed. During spraying, wear suitable respiratory equipment.

**Protective gloves:** Chemical resistant gloves (e.g., natural rubber, nitrile rubber, neoprene or PVC)

Tetraethylenepentamine:

Contact type	Glove material	Layer thickness	Breakthrough time*
Full	neoprene	0.65 mm	> 480 min.
Splash	natural rubber	0.6 mm	> 120 min.

\*2965 Determined according to EN374 standard.

**Eye and face protection:** Safety goggles.

**Other:** Impervious clothing as necessary to prevent skin contact.

**8.2.3. Environmental exposure controls**

Refer to sections 6 and 12.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	paste	<b>Odour</b>	amine
<b>Colour</b>	tan	<b>Odour threshold</b>	not determined
<b>Initial boiling point</b>	not determined	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point</b>	not determined	<b>% Aromatics by weight</b>	0%
<b>% Volatile (by volume)</b>	0%	<b>pH</b>	not applicable
<b>Flash point</b>	122°C (252°F)	<b>Relative density</b>	1.25 kg/l
<b>Method</b>	component data	<b>Coefficient (water/oil)</b>	< 1
<b>Viscosity</b>	8000 cps @ 25°C	<b>Vapour density (air=1)</b>	> 1
<b>Autoignition temperature</b>	not determined	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Decomposition temperature</b>	not determined	<b>Solubility in water</b>	slightly soluble
<b>Upper/lower flammability or explosive limits</b>	not determined	<b>Explosive properties</b>	not determined
<b>Flammability (solid, gas)</b>	not applicable	<b>Oxidising properties</b>	not determined

**9.2. Other information**

None

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Refer to sections 10.3 and 10.5.

**10.2. Chemical stability**

Stable

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under conditions of normal use.

**10.4. Conditions to avoid**

Open flames and high temperatures.

**10.5. Incompatible materials**

Strong acids and strong oxidizers like liquid Chlorine and concentrated Oxygen. Reactive metals. Materials reactive with hydroxyl compounds.

**10.6. Hazardous decomposition products**Nitric acid, NO<sub>x</sub>, Ammonia, Carbon Monoxide, Carbon Dioxide, nitrosamines and other toxic fumes.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

**Primary route of exposure under normal use:** Inhalation, skin and eye contact. Personnel with pre-existing allergies, eczema or skin conditions may be aggravated by exposure.

**Acute toxicity -**

**Oral:** Harmful if swallowed. ATE-mix = 798.6 mg/kg.

Substance	Test	Result
Methyleneoxide, polymer with benzenamine, hydrogenated	LD50, rat	449 mg/kg
Benzyl alcohol	LD50, rat	1230 mg/kg
Tetraethylenepentamine	LD50, rat	1400 mg/kg (read-across)
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LD50, rat	2413 mg/kg

**Dermal:** ATE-mix = 2929 mg/kg

Substance	Test	Result
Benzyl alcohol	LD50, rabbit	2000 mg/kg
Tetraethylenepentamine	LD50, rabbit	660 mg/kg
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LD50, rabbit	2009 mg/kg
Methyleneoxide, polymer with benzenamine, hydrogenated	LD50, rabbit	2673 mg/kg

**Inhalation:** High vapor concentrations and mist can cause severe eye and respiratory tract irritation, headache, dizziness, nausea and possibly shortness of breath. ATE-mix = 64.4 mg/l (vapor), > 5 mg/l (mist).

Substance	Test	Result
Benzyl alcohol	LC50, rat	> 4.178 mg/l (mist)
Benzyl alcohol	LC50, rat	11 mg/l (vapor, ATE)
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LC50, rat	> 1.49 mg/l (mist)

**Skin corrosion/irritation:** Causes skin burns.

**Serious eye damage/irritation:** Risk of serious damage to eyes.

Substance	Test	Result
Tetraethylenepentamine	Eye irritation, rabbit	Corrosive

**Respiratory or skin sensitisation:** Repeated contact may cause skin sensitization or an allergic reaction.

**Germ cell mutagenicity:** Benzyl alcohol, Fatty acids, tall-oil, reaction products with tetraethylenepentamine: not expected to be a germ cell mutagen. Tetraethylenepentamine – Ames test: positive. N-(3-(trimethoxysilyl)propyl)ethylenediamine: based on available data, the classification criteria are not met.

**Carcinogenicity:** Repeated inhalation of respirable free silica may cause scarring of the lungs with cough and shortness of breath. Silicosis, a delayed lung injury that is a disabling, progressive and sometimes fatal pulmonary fibrosis, may result. The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have classified inhaled silica as a human carcinogen. The silica in this product does not separate from the mixture or in of itself become air-borne, therefore it does not present a hazard in normal use.

**Reproductive toxicity:** Fatty acids, tall-oil, reaction products with tetraethylenepentamine, N-(3-(trimethoxysilyl)propyl)ethylenediamine: not expected to be reproductive toxicants. Tetraethylenepentamine: inconclusive.

**STOT – single exposure:** Fatty acids, tall-oil, reaction products with tetraethylenepentamine: not expected to cause organ damage from a single exposure. Tetraethylenepentamine, N-(3-(trimethoxysilyl)propyl)ethylenediamine: data lacking.

**STOT – repeated exposure:** May cause damage to organs through prolonged or repeated exposure if swallowed. Fatty acids, tall-oil, reaction products with tetraethylenepentamine, Tetraethylenepentamine, N-(3-(trimethoxysilyl)propyl)ethylenediamine: not expected to cause organ damage from prolonged or repeated exposure.

**Aspiration hazard:** Not classified as an aspiration toxicant. Repeated inhalation of respirable free silica may cause scarring of the lungs with cough and shortness of breath. Silicosis, a delayed lung injury that is a disabling, progressive and sometimes fatal pulmonary fibrosis, may result.

**Other information:** None known

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

**12.1. Toxicity**

Substance	Test	Result
Methyleneoxide, polymer with benzenamine, hydrogenated	96 h LC50 (Poecilia reticulata)	63 mg/l
Benzyl alcohol	96 h LC50 (Fathead minnow)	460 mg/l
Methyleneoxide, polymer with benzenamine, hydrogenated	48 h EC50 (for daphnia)	15.4 mg/l
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	48 h EC50 (for daphnia)	0.1 mg/l
Methyleneoxide, polymer with benzenamine, hydrogenated	72 h ErC50 (for algae)	43.9 mg/l
Benzyl alcohol	72 h IC50 (for algae)	700 mg/l
Methyleneoxide, polymer with benzenamine, hydrogenated	3 h EC50 (activated sludge)	187 mg/l

**12.2. Persistence and degradability**

Tetraethylenepentamine: expected to be resistant to biodegradation. Benzyl alcohol: readily biodegradable. N-(3-(trimethoxysilyl)propyl)ethylenediamine: hydrolyzes in water or moist air, releasing methanol and organosilicons; biodegradation 50% (OECD 301A 28 days).

**12.3. Bioaccumulative potential**

Methyleneoxide, polymer with benzenamine, hydrogenated, Tetraethylenepentamine, N-(3-(trimethoxysilyl)propyl)ethylenediamine: bioconcentration in aquatic organisms is not expected to be significant. Tetraethylenepentamine: log Kow < 1. Benzyl alcohol: low potential for bioaccumulation (log Kow = 1.1).

**12.4. Mobility in soil**

Paste. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Benzyl alcohol: expected to have very high mobility in soils. Tetraethylenepentamine: expected to have high mobility in soils.

**12.5. Results of PBT and vPvB assessment**

Not available

**12.6. Other adverse effects**

None known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Unreacted components are a special waste (classified as hazardous according to 2008/98/EC). Combine resin and curative. The final cured material is considered nonhazardous. Landfill sealed containers with a properly licensed facility. May be incinerated at an appropriate facility. Check local, state and national/federal regulations and comply with the most stringent requirement.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

ADR/RID/ADN/IMDG/ICAO: UN2735

**14.2. UN proper shipping name**

ADR/RID/ADN/IMDG/ICAO: AMINES, LIQUID, CORROSIVE, N.O.S.  
(POLYAMIDOAMINES / CYCLOALIPHATIC AMINES)

**14.3. Transport hazard class(es)**

ADR/RID/ADN/IMDG/ICAO: 8

**14.4. Packing group**

ADR/RID/ADN/IMDG/ICAO: III

**14.5. Environmental hazards**

MARINE POLLUTANT

**14.6. Special precautions for user**

NO SPECIAL PRECAUTIONS FOR USER

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

NOT APPLICABLE

**14.8. Other information**

IMDG: EmS F-A, S-B, IMDG segregation group 18-Alkalis

ADR: Classification code C7, Tunnel restriction code (E)

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU regulations**

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

Other EU regulations: Directive 94/33/EC on the protection of young people at work.

**15.1.2. National regulations**

National implementation of the EC Directives referred to in section 15.1.1.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms:** ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE: Acute Toxicity Estimate  
 BCF: Bioconcentration Factor  
 cATpE: Converted Acute Toxicity point Estimate  
 CLP: Classification Labelling Packaging Regulation (1272/2008/EC)  
 GHS: Globally Harmonized System  
 ICAO: International Civil Aviation Organization  
 IMDG: International Maritime Dangerous Goods  
 LC50: Lethal Concentration to 50 % of a test population  
 LD50: Lethal Dose to 50% of a test population  
 LOEL: Lowest Observed Effect Level  
 N/A: Not Applicable  
 NA: Not Available  
 NOEC: No Observed Effect Concentration  
 NOEL: No Observed Effect Level  
 OECD: Organization for Economic Co-operation and Development  
 PBT: Persistent, Bioaccumulative and Toxic substance  
 (Q)SAR: Quantitative Structure-Activity Relationship  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)  
 REL: Recommended Exposure Limit  
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SDS: Safety Data Sheet  
 STEL: Short Term Exposure Limit  
 STOT RE: Specific Target Organ Toxicity, Repeated Exposure  
 STOT SE: Specific Target Organ Toxicity, Single Exposure  
 TDG: Transportation of Dangerous Goods (Canada)  
 TWA: Time Weighted Average  
 US DOT: United States Department of Transportation  
 vPvB: very Persistent and very Bioaccumulative substance  
 WEL: Workplace Exposure Limit  
 WHMIS: Workplace Hazardous Materials Information System  
 Other abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**Key literature references and sources for data:** Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)  
 Chemical Classification and Information Database (CCID)  
 European Chemicals Agency (ECHA) - Information on Chemicals  
 Hazardous Chemical Information System (HCIS)  
 National Institute of Technology and Evaluation (NITE)  
 Swedish Chemicals Agency (KEMI)  
 U.S. National Library of Medicine Toxicology Data Network (TOXNET)



**Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP]:**

Classification	Classification procedure
Acute Tox. 4, H302	Calculation method
Skin Corr. 1C, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373 (oral)	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

**Relevant H-statements:** H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.

**Hazard pictogram names:** Corrosion, exclamation mark, health hazard, environment

**Changes to the SDS in this revision:** Complete change to represent new formulation.

**Further information:** None

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.