

# Safety Data Sheet according to Regulation (EC) No. 2015/830

## SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier COMFORT SEALER HARDENER Revision Date: 04/07/2018

Product Name: Comfort Sealer - Hardener Supercedes Date: New SDS

**CAS Number:** 160994-68-3

EC Number: -

Index Number:

REACH Reg No.

Sector of Use Code: No Information

1.2 Relevant identified uses of the

substance or mixture and uses advised against

Hand-mixing with intimate contact and only PPE available. Wide dispersive indoor use resulting in inclusion into or onto a matrix. Hardener for 2 components coatings - Industrial use. For use by appropriately trained applicators. Roller application or brushing. Low energy spreading of coatings. Advised against: Home DIY applications,

because of the health hazards and training required.

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

Supplier: Flowcrete UK Ltd.

The Flooring Technology Centre

Booth Lane

Moston, Sandbach, Cheshire. UK

CW11 3QF

Tel: +44 (0)1270 753000 Fax: +44 (0)1270 753333 ehs.uk@flowcrete.com http://www.flowcrete.co.uk

Datasheet Produced by: ehs.uk@flowcrete.com

1.4 Emergency telephone number: CHEMTREC +001 703 5273887 (Outside US)

CHEMTREC 1-800-424-9300 (Inside US)

## **SECTION 2: Hazard Identification**

#### 2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

#### **HAZARD STATEMENTS**

Other EU extensions EUH204
Skin Sensitizer, category 1 H317
Acute Toxicity, Inhalation, category 4 H332
STOT, single exposure, category 3, RTI H335

Hazardous to the aquatic environment, Chronic, category 3

#### 2.2 Label elements

### Symbol(s) of Product



### Signal Word

Warning

### Named Chemicals on Label

Hydrophilic aliphatic polyisocyanate

#### HAZARD STATEMENTS

Other EU extensions Skin Sensitizer, category 1 Acute Toxicity, Inhalation, category 4 STOT, single exposure, category 3, RTI Hazardous to the aquatic environment, Chronic, category 3 PRECAUTION PHRASES	EUH204 H317 H332 H335 H412	Contains isocyanates. May produce an allergic reaction. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
	P261 P273	Avoid breathing dust/fume/gas/mist/vapours/spray.  Avoid release to the environment

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/
	face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing.

H412

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

## 2.3 Other hazards

No Information

### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

## **SECTION 3: Composition/Information On Ingredients**

#### 3.1 Substances

## **Hazardous Ingredients**

CAS-No.EINEC No.Name According to EEC%160994-68-3-Hydrophilic aliphatic polyisocyanate75-100

 CAS-No.
 REACH Reg No.
 CLP Symbols
 CLP Hazard Statements
 M-Factors

 160994-68-3
 GHS07
 H317-332-335-412

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## **SECTION 4: First-aid Measures**

## 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Risk of product entering the lungs on vomiting after ingestion. Remove contaminated clothing and shoes.

**AFTER INHALATION:** Consult a physician after significant exposure. Keep respiratory tract clear. Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER SKIN CONTACT: Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. If skin irritation persists, call a physician.

**AFTER EYE CONTACT:** Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If swallowed, seek medical advice immediately and show this container or label.

## Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Irritating to respiratory system. May cause sensitization by inhalation and skin contact. The substance has delayed effects.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## **SECTION 5: Fire-fighting Measures**

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

### 5.2 Special hazards arising from the substance or mixture

No Information

## 5.3 Advice for firefighters

Keep containers and surroundings cool with water spray. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Fire will produce dense black smoke containing hazardous combustion products (see section 10). In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## **SECTION 6: Accidental Release Measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

## 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. May cause long-term adverse effects in the aquatic environment.

## 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Refer to protective measures listed in sections 7 and 8.

## 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## **SECTION 7: Handling and Storage**

## 7.1 Precautions for safe handling

Wear personal protective equipment. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

## 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Avoid temperatures above 35 °C, direct sunlight and contact with sources of heat. Do not freeze. **STORAGE CONDITIONS:** Do not freeze. Store at room temperature in the original container. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Date Printed: 04/07/2018 Product: COMFORT SEALER HARDENER

## 7.3 Specific end use(s)

Component of a resin flooring product. The mixing and application to be in accordance with the technical data sheets.

## **SECTION 8: Exposure Controls/Personal Protection**

## 8.1 Control parameters

## Ingredients with Occupational Exposure Limits (UK WELS)

Name CAS-No. LTEL ppm STEL ppm STEL mg/m3 LTEL mg/m3

Hydrophilic aliphatic polyisocyanate 160994-68-3

Name CAS-No. OEL Note

Hydrophilic aliphatic polyisocyanate 160994-68-3

FURTHER ADVICE: No Information

## 8.2 Exposure controls

#### **Personal Protection**

**RESPIRATORY PROTECTION:** Local exhaust is recommended. In case of insufficient ventilation wear suitable respiratory equipment. Combination filter: A2-P2.

EYE PROTECTION: Eye wash bottle with pure water. Safety goggles.

HAND PROTECTION: Impervious gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Protective gloves complying with EN 374: Nitrile rubber. Butyl rubber. Viton®

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** As a rule, at least 5 air changes per hour are recommended at the workplace. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

#### **Chemical Name:**

EC No.: CAS-No.:

#### DNELs - Derived no effect level

	Workers			Consumers				
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required							
Inhalation								
Dermal								

## PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

## **SECTION 9: Physical and Chemical Properties**

## 9.1 Information on basic physical and chemical properties

Appearance: White

Physical State Liquid
Odor Slight

Odor threshold Not determined

pH

Melting point / freezing point (°C)

Not determined

Boiling point/range (°C)

N.D. - N.D.

Flash Point, (°C) >63

Evaporation rate Not determined Flammability (solid, gas) Not Applicable

Upper/lower flammability or explosive

limits

Not determined

Vapour Pressure23 hPa at 20°CVapour densityNot determinedRelative density1.043 at 20 °C

Solubility in / Miscibility with water miscible

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

Decomposition temperature (°C)

Not determined

Viscosity

Not determined

Explosive properties

Not Applicable

Oxidising properties

9.2 Other information

VOC Content g/l: (cat A/j) 140 g/l

This is a calculated maximum VOC content for the mixed ready to use product (to Directive 2004/42/EC).

## **SECTION 10: Stability and Reactivity**

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions. Water reactive.

## 10.2 Chemical stability

Decomposes on heating. Humid air and/or water will produce carbon dioxide which will pressurize the container.

## 10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur. Preparation reacts slowly with water resulting in evolution of CO2.

## 10.4 Conditions to avoid

Avoid temperatures above 35 °C, direct sunlight and contact with sources of heat. Do not freeze.

## 10.5 Incompatible materials

Water, alcohol and amines. Water in the container will lead to increased pressure and risk of explosion.

## 10.6 Hazardous decomposition products

In case of fire **hazardous decomposition products** may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. Preparation reacts slowly with water resulting in evolution of CO2.

## **SECTION 11: Toxicological Information**

## 11.1 Information on toxicological effects

**Acute Toxicity:** 

Oral LD50: No Information Inhalation LC50: No Information

Date Printed: 04/07/2018 Product: COMFORT SEALER HARDENER

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

**Toxicity for reproduction:** No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u> <u>Name According to EEC</u> <u>Oral LD50</u> <u>Dermal LD50</u> <u>Vapor LC50</u>

160994-68-3 Hydrophilic aliphatic polyisocyanate > 2000 mg/kg (rat)

#### Additional Information:

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

## **SECTION 12: Ecological Information**

12.1 Toxicity:

EC50 48hr (Daphnia):No informationIC50 72hr (Algae):No informationLC50 96hr (fish):No information

**12.2 Persistence and degradability:**No information

**12.3 Bioaccumulative potential:** No information

**12.4 Mobility in soil:** No information

12.5 Results of PBT and vPvB The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

assessment:

**12.6** Other adverse effects: No information

CAS-No.Name According to EECEC50 48hrIC50 72hrLC50 96hr160994-68-3Hydrophilic aliphatic polyisocyanateNo informationNo information

## **SECTION 13: Disposal Considerations**

13.1 WASTE TREATMENT METHODS: Dispose of as hazardous waste in compliance with local and national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. The product should not be allowed to enter drains, water courses or the soil.

080120 **European Waste Code:** 150110 **Packaging Waste Code:** 

**SECTION 14: Transport Information** 

**UN number** Not applicable

14.2 UN proper shipping name Not regulated for transport according to ADR/RID, IMDG, and IATA

regulations.

Not applicable **Technical name** 14.3 Transport hazard class(es) Not applicable

Not applicable Subsidiary shipping hazard

14.4 Packing group Not applicable 14.5 Environmental hazards Not applicable 14.6 Special precautions for user Not applicable

Not applicable 14.7 Transport in bulk according to Annex II Not applicable

## **SECTION 15: Regulatory Information**

of MARPOL 73/78 and the IBC code

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

## **National Regulations:**

EmS-No.:

**Denmark Product Registration Number:** Not available

Danish MAL Code: Not available

Danish MAL Code - Mixture: Not available

Not available **Sweden Product Registration Number:** 

**Norway Product Registration Number:** Not available

**Germany WGK Class:** Not available

Covered by Directive 2012/18/EC (Seveso III): Not applicable

Restrictions to product or to substances according

to Annex XVII, Regulation (CE) 1907/2006: Not applicable

#### 15.2 **Chemical Safety Assessment:**

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

## SECTION 16: Other Information

## Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Harmful to aquatic life with long lasting effects. H412

## Date Printed: 04/07/2018

Reasons for revision

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

#### Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation

EC European Commission
EU European Union
US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit
STEL Short term exposure limit
OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits
VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration

IC50 Half maximal inhibitory concentration

PBT Persistent bioaccumulative toxic chemical

vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978

IBC International Bulk Container RTI Respiratory Tract Irritation

NE Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the

Date Printed: 04/07/2018

product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.