



Safety Data Sheet
according to Regulation (EC)
No. 453/2010

1. Identification of the Substance/Mixture and the Company/Undertaking

- 1.1 Product Identifier** 5500B
- Product Name:** Stonflex CR9 B **Revision Date:** 05/08/2013
- 1.2 Relevant identified uses of the substance or mixture and uses advised against** Base component of 2 components coatings - Industrial use **Supersedes Date:** 07/05/2013
- 1.3 Details of the supplier of the safety data sheet**
- Importer:** StonCor Europe
9 Rue du Travail, 1400 Nivelles, Belgium
- Manufacturer:** Stonhard, Division of StonCor Group, Inc.
1000 East Park Avenue
Maple Shade, NJ 08052
- +1 856 7797500 (US)
- Regulatory / Technical Information:
+32 67493710 Nivelles, Belgium
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- Datasheet Produced by:** Darnell, Benjamin - ehs@stoncor.com
- 1.4 Emergency telephone number:** CHEMTREC +1 703 5273887 (Outside US)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Dangerous Preparation Directive - EC Directive 1999/45/EC

Highly Flammable, Irritant

2.2 Label elements

Symbol(s) of Product



Named Chemicals On Label

No Named Chemicals exist in this product

EU RISK PHRASES

R11 Highly flammable.

- R36 Irritating to eyes.
 R66 Repeated exposure may cause skin dryness or cracking
 R67 Vapours may cause drowsiness and dizziness

EU SAFETY PHRASES

- S16 Keep away from sources of ignition - No smoking.
 S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S33 Take precautionary measures against static discharges.
 S51 Use only in well-ventilated areas.
 S9 Keep container in a well-ventilated place.

2.3 Other hazards

Not applicable

Results of PBT and vPvB assessment:

No information

3. Composition/Information On Ingredients

3.2 Mixtures**Hazardous Ingredients**

<u>CAS-No.</u>	<u>EINEC No.</u>	<u>Name According to EEC</u>	<u>%</u>	<u>EU Symbols</u>	<u>R-Phrases</u>
25190-89-0	607-638-4	vinylidene fluoride-hexafluoro	25-50		
67-64-1	200-662-2	acetone	25-50	F, Xi	R11-36-66-67
110-43-0	203-767-1	heptan-2-one	10-25	Xn	R10-20/22
13463-67-7	236-675-5	titanium dioxide	2.5-10		
1333-86-4	215-609-9	carbon black	2.5-10		
7727-43-7	231-784-4	barium sulfate	0.1-1.0		

<u>CAS-No.</u>	<u>REACH Reg No.</u>	<u>CLP Symbols</u>	<u>CLP Hazard Statements</u>	<u>M-Factors</u>
25190-89-0				0
67-64-1		GHS02-GHS07	H225-319-336	0
110-43-0		GHS02-GHS07	H226-302-332	0
13463-67-7		GHS07-GHS08	H335-372-413	0
1333-86-4		GHS08	H351	0
7727-43-7				0

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

4. First-aid Measures

4.1 Description of First Aid Measures

AFTER INHALATION: Move to fresh air. Keep respiratory tract clear.

AFTER SKIN CONTACT: If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Flammable. Harmful by inhalation. Irritating to eyes. Harmful in contact with skin and if swallowed.

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.

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

HAZARDOUS COMBUSTION PRODUCTS: No Information

5.3 Advice for firefighters

SPECIAL FIREFIGHTING PROTECTION EQUIPMENT: Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Water mist Dry powder Foam Carbon dioxide (CO₂) High volume water jet

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

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).

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material.

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Take measures to prevent the build up of electrostatic charge. Vapours may form explosive mixtures with air. Provide exhaust ventilation close to floor level. Wear personal protective equipment. Open drum carefully as content may be under pressure. Use only in well-ventilated areas. Keep product and empty container away from heat and sources of ignition. Use only explosion-proof equipment. Have fire extinguishers ready before opening the drum. Do not use sparking tools.

PROTECTION AND HYGIENE MEASURES: Keep working clothes separately. Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice for diagnostics.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Direct sources of heat. Strong sunlight for prolonged periods.

STORAGE CONDITIONS: Store in original container. Keep in an area equipped with solvent resistant flooring. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits

(UK WELS)

Name	%	LTEL ppm	STEL ppm	STEL mg/m ³	LTEL mg/m ³	OEL Note
vinylidene fluoride-hexafluoro	25-50					
acetone	25-50	500	1500	3620	1210	
heptan-2-one	10-25	50	100	475	237	SKIN

titanium dioxide	2.5-10	4
carbon black	2.5-10	3.5
barium sulfate	< 1.0	10

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified at the EU level under the dangerous substances and preparations regulation.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Respirator with filter for organic vapor

EYE PROTECTION: Ensure that eyewash stations and safety showers are close to the workstation location. Eye wash bottle with pure water Safety glasses Safety goggles

HAND PROTECTION: Solvent-resistant 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). Follow the skin protection plan. Remove and wash contaminated clothing before re-use. Flame retardant antistatic protective clothing

OTHER PROTECTIVE EQUIPMENT: No Information

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Gray Resin
Physical State	Liquid
Odor	Solvent
Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	Not determined
Flash Point, (°C)	16
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined - Not Determined
Vapour Pressure, mmHg:	Not Determined
Vapour density	Not determined
Relative density	Not determined
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity:	52,000 cps
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information

VOC Content g/l:	249
Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.	
Specific Gravity (g/cm³)	1.307

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions. Explosive reaction may occur on heating or burning.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Direct sources of heat. Strong sunlight for prolonged periods.

10.5 Incompatible materials

Do not store together with oxidizing and self-igniting products.

10.6 Hazardous decomposition products

No Information

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:

Inhalation LC50:

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.

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>
67-64-1	acetone	5800 mg/kg (rat)	7426 mg/kg (guinea pig)	5000 ppm / 1 hr, rat, inh
110-43-0	heptan-2-one	1670 mg/kg rat oral		2000 ppm, 4 hours
13463-67-7	titanium dioxide	10000 mg/m3, oral (rat)		
1333-86-4	carbon black	>15400 mg/kg oral, rat		

Additional Information:

No Information

12. Ecological Information

12.1 Toxicity:	
EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 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 assessment:	No information
12.6 Other adverse effects:	No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
25190-89-0	vinylidene fluoride-hexafluoro	No information	No information	
67-64-1	acetone	12600 -12700 mg/l	No information	5540 mg/l
110-43-0	heptan-2-one	No information	No information	
13463-67-7	titanium dioxide	No information	No information	
1333-86-4	carbon black	No information	No information	
7727-43-7	barium sulfate	No information	No information	

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. 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.

European Waste Code: 080111

14. Transport Information

14.1 UN number	UN1866
14.2 UN proper shipping name	Resin Solution
Technical name	N/A
14.3 Transport hazard class(es)	3
Subsidiary shipping hazard	
14.4 Packing group	II
14.5 Environmental hazards	
14.6 Special precautions for user	Not applicable
EmS-No.:	F-E, S-E
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

15. Regulatory Information

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

National Regulations:

Denmark Product Registration Number:

Danish MAL Code:

Sweden Product Registration Number:

Norway Product Registration Number:

WGK Class:

15.2 Chemical Safety Assessment:

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

16. Other Information

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

Symbol(s) of Product



Signal Word

Danger

CLP HAZARD STATEMENTS

Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.

CLP PRECAUTION PHRASES

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P235	Keep cool.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P281	Use personal protective equipment as required.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305	IF IN EYES:
P308	IF exposed or concerned:
P313	Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.

P351 Rinse cautiously with water for several minutes.
 P403+233 Store in a well-ventilated place. Keep container tightly closed.

Text for Risk Phrases shown in Section 3 describing each ingredient:

R10 Flammable.
 R11 Highly flammable.
 R20/22 Harmful by inhalation and if swallowed.
 R36 Irritating to eyes.
 R66 Repeated exposure may cause skin dryness or cracking
 R67 Vapours may cause drowsiness and dizziness

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

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H413 May cause long lasting harmful effects to aquatic life.

Reasons for revision

No Information

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
 ESIS (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in
 Ispra, Italy

Annex VI of the EU Council Directive 67/548/EEC

Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC

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

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

