

SAFETY DATA SHEET(MSDSCdn)

FLAILBOND® 200

VA-No.

Version
Revision date
Print Date
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06/04/2018
06/04/2018**1. Identification of the substance/mixture and of the company/undertaking****1.1 Product Identifier**Surface to Surface Inc. : **FLAILBOND® 200****1.2 Recommended use of the chemical and restrictions on use**

Recommended use : Industrial Use

Non-recommended use(s) : None Known

1.3 Details of the supplier of the safety data sheetCompany : Surface to Surface Inc.
5150 Forest Road
Watford, ON N0M-2S0
Canada

Telephone : (800) 567-0978

Telefax : (519) 882-8781

E-mail : rhw@stsmixers.com**1.4 Emergency telephone number**

Emergency Information : Non-Emergency Phone Number (800) 567-0978

For Hazardous Materials [or Dangerous Goods] Incident**Spill, Leak, Fire, Exposure, or Accident****Call CHEMTREC Day or Night****1-800-424-9300 / +1 703-527-3887 CCN837781****2. Hazards Identification****2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture

2.2 Label Elements

Not a hazardous substance or mixture

Other Hazards : None Known

3. Composition/Information on Ingredients**3.1 Substances****Classification According to Regulation 29CFR 1910.1200**

Chemical Name	CAS-No.	Concentration
2-Propenoic acid, homopolymer, sodium salt (SAP)	9003-04-07	70-85%
Portland Cement	65997-15-1	0-10%
Sodium Bentonite	1302.78-9	0-10%
Wood Fibers	9004-34-6	10-30%

Texts of H phrases in Chapter 16

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4. First Aid Measures

4.1 Description of First Aid Measures

- General advice : Remove soiled or soaked clothing immediately
- Inhalation : Ensure supply of fresh air
In the event of symptoms seek medical advice
- Skin Contact : In case of contact with skin wash off with soap and water
In the event of symptoms seek medical advice
- Eye Contact : In case of contact with eyes rinse thoroughly with plenty of water.
If symptoms persist, seek medical advice
- Ingestion : Thoroughly clean mouth with water
In the event of symptoms seek medical advice

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Symptoms : No Special Hints

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

- Treat Symptomatically

5. Fire-Fighting Measures

5.1 Extinguishing Media

- Suitable Extinguishing Media : Foam, Carbon Dioxide, Dry Powder, Water Spray
- Unsuitable Extinguishing Media : Full Water Jet

5.2 Special Hazards Arising From the Substance or Mixture

- In the event of fire the following can be released : Carbon Dioxide, Carbon Monoxide

5.3 Advice for Firefighters

- Do Not inhale explosion and/or combustion gases
Use self-contained breathing apparatus

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Forms slippery surfaces with water
Use personal protective equipment

6.2 Environmental Precautions

- Do not allow to enter drains or waterways
Do not discharge into the subsoil/soil

6.3 Methods and Materials for Containment and Cleaning Up

- Pick up mechanically
Dispose of absorbed material in accordance with the regulations

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06/04/2018**7. Handling and Storage****7.1 Precautions for Safe Handling**

Advice on safe handling : Ensure adequate ventilation
Hygiene measures : Wash hands before breaks and after work
Do not eat, drink or smoke when working
Remove soiled or soaked clothing immediately

7.2 Conditions for Safe Storage, Including any Incompatibilities**Prevention of Fire and Explosion**

Information : No special measures required

Storage

Information : None

Further Information on storage conditions : Keep container dry

8. Exposure Controls/Personal Protection**8.1 Control parameters**

Ingredient Name	Exposure Limits
SAP	No occupational exposure limits (US)
Sodium Bentonite	No occupational exposure limits (US)
Portland Cement	ACGIH TLV (United States, 3/2012) TWA: 3 mg/m ³ . Form: Respirable particles TWA: 10 mg/m ³ . Form: Inhalable particles OSHA PEL (United States, 6/2010) PEL: 5 mg/m ³ . Form: Respirable fraction PEL: 15 mg/m ³ . Form: Total dust TWA: 5 mg/m ³ . Form: Respirable fraction TWA: 15 mg/m ³ . Form: Total dust
Wood Fibers	No occupational exposure limits (US)

8.2 Personal Protective Equipment

Eye Protection : This product is not classified as a hazardous substance. Any necessity for eye Protection must be determined within the scope of a risk assessment
Hand Protection : Glove material, protective gloves
Body Protection : Protective Clothing
Respiratory Protection : In case of formation of vapors/dusts: Short term: Filter apparatus, Filter P1

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9. Physical and Chemical Properties**9.1 Information on Basic Physical and Chemical Properties**

Physical State	: Solid
Form	: Granular
Color	: White
Odor	: Odorless
Odor Threshold	: No data available
pH	: approx. 7
Melting Point	: not applicable
Boiling Point	: not applicable
Flash Point	: not applicable
Evaporation Rate	: No data available
Flammability	: No data available
Upper Explosion/ Ignition Limits	: Not Measured
Lower Explosion Limits	: Not Measured
Vapor Pressure	: < 10 hPa (20 °C)
Relative Vapor Density	: No data available
Relative Density	: No data available
Solubility	: Not measured
Water Solubility	: Insoluble
Partition Coefficient (n-octanol/water)	: No data available
Autoignition Temperature	: Not measured
Thermal Decomposition	: Not Measured
Viscosity, Kinematic	: Not applicable
Viscosity, Dynamic	: Not applicable

9.2 Other Information

Density	: Approx. 0.7 g/cm ³
Bulk Density	: Approx. 720 Kg/m ³
Other Information	: None

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10. Stability and Reactivity**10.1 Reactivity**

See section "Possibility of hazardous reactions"

10.2 Chemical Stability

The product is stable under normal conditions

10.3 Possibility of Hazardous Reactions

Risk of dust explosions

10.4 Conditions to Avoid

> 200

10.5 Incompatible Materials

None know

10.5 Hazardous Decomposition Products

None with proper storage and handling

11. Toxicological Information**11.1 Information on Toxicological Effects**

Acute Toxicity (Oral) : No data available

Acute Toxicity (Inhalation): No data available

Acute Toxicity (Dermal) : No data available

Irritation/Corrosion of
the skin : Species: Rabbit
Result: Non-irritant
Method: OECD 404Serious Eye Damage/
eye irritation : Species: Rabbit
Result: Mild eye irritation
Method: OECD 405Respiratory/Skin
Sensitization : Species: Guinea pig
Result: Non-sensitizing
Method: OECD 406

Repeated Dose Toxicity : No data available

Genotoxicity in vitro : Result: Not mutagenic
Method: Mouse lymphoma test
Remarks: Not mutagenic in *in vivo* and *in vitro* tests

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US. National Toxicology Program (NTP) Report on Carcinogens

NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

US. ACGIH Threshold Limit Values

ACGIH: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reprotoxicity/Fertility : Not applicable

Reprotoxicity/Development : Not applicable
/Teratogenicity

Specific Target Organ : No data available
Toxicity-Single Exposure

Specific Target Organ : No data available
Toxicity-Repeated exposure

Aspiration Hazard : No aspiration toxicity classification

Other Information : Proper use provided, no adverse health effects have been observed or have been come to our knowledge

12. Ecological Information

Ecotoxicology Assessment

Acute Aquatic Toxicity : No data available

Chronic Aquatic Toxicity : No data available

12.1 Toxicity

Aquatocicity, Fish : Species: Leuciscus idus exposure duration:
96h LC50: > 4,000 mg/l, Method: OECD 203

Aquatocicity, Invertebrates : No data available

Aquatocicity, Algae/ : No data available
Aquatic Plants

Toxicity in Microorganisms : Species: Pseudomonas putida, Exposure duration: 24h, EC50: > 6,000 mg/l

Chronic Toxicity in Fish : No data available

Chronic Toxicity in Aquatic : No data available
Invertebrates

Toxicity in Organisms : No data available
Which Live in the Soil

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12.2 Persistence and Degradability

Photodegradation : No data available

Biological Degradability : No data available

12.3 Bioaccumulation Potential

Bioaccumulation : No data available

12.4 Mobility in Soil

Environmental Distribution : No data available

12.5 Results of PBT and vPvB Assessment

PBT and vPvB Assessment : No data available

13. Disposal Considerations

13.1 Waste Treatment Methods

Product : In accordance with local authority regulations, take special waste incineration Plant

Contaminated Packaging : If empty contaminated containers are recycled or disposed of, the receiver must Be informed about possible hazards

14. Transport Information

Not Dangerous According to Transport Regulations

14.1 UN Number: --
14.2 UN Proper Shipping Name: --
14.3 Transport Hazard Class(es): --
14.4 Package Group: --
14.5 Environmental Hazards: --
14.6 Special Precautions for User: No

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada : WHIMS CLASSIFICATION
Not Rated
This product does not contain component(s) on the WHIMS Ingredient Disclosure List

US Regulation

SARA Title III Section 311/312 Hazard Categories : No SARA Hazard

Other Regulations : None

State Right to Know : SARA 313: This material does not contain any chemical with known CAS numbers that exceed the threshold (De Minims) reporting levels established By SARA Title III, Section 313

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

ZUSPA_RTK: No components subject to "Right-To-Know" legislation following States

ZUSMA_RTK: No components subject to "Right-To-Know" legislation following States

ZUSNJ_RTK: No components subject to "Right-To-Know" legislation following States

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

HMIS Ratings	Health	1
	Flammability	0
	Reactivity	0
	Personal Protection	X

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Notification Status

TSCA (USA) : Listed/registered or exempted
DSL (CDN) : Listed/registered or exempted

16. Other Information

List of References

Other Information : Comply with national laws regulating employee instruction
Revision Date : 06/04/2018

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06/04/2018**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organization for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization