



SAFETY DATA SHEET

1. Identification

Product Name: SB Flex 72% Part A
Product Code SA102
Recommended use Decorative coating.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Northern Surface
8140 W 350 N
Angola, IN 46703
Telephone (203)-393-0010
Contact person Steve Fine
Emergency phone number Call CHEMTREC day or night
USA/Canada - 1.800.424.9300
Mexico - 1.800.681.9531
Outside USA/Canada
1.703.527.3887

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3
Health hazards Skin corrosion/irritation Category 2
Sensitization, skin Category 1
Specific target organ toxicity, single exposure Category 3 narcotic effects
Aspiration hazard Category 1
Environmental hazards Hazardous to the aquatic environment, long-term hazard Category 2
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.
Precautionary statement
Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Collect spillage.

Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Tetraethyl n,n'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate	136210-30-5	57-62
Solvent naphtha (petroleum), light aromatic	64742-95-6	30-35
Coconut oil	8001-31-8	2-3
Aliphatic carboxylic ester	623-91-6	0.6-3.5
Limonene	5989-27-5	1-2

Composition comments

4. First-aid measures

Inhalation Skin contact Eye contact Ingestion

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

5. Fire-fighting measures

European List of Notified Chemical Substances (ELINCS)	No	
Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Existing Chemicals List (ECL)	Yes	
New Zealand Inventory	Yes	
Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Other information, including date of preparation or last revision

Issue date	19-May-2015
Revision date	-

Version #

01

NFPA ratings



References

HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)

Disclaimer

The information in this (M)SDS was obtained from sources which we believe are reliable but cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or warranty express or implied.

European List of Notified Chemical Substances (ELINCS)	No	
Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Existing Chemicals List (ECL)	Yes	
New Zealand Inventory	Yes	
Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

European List of Notified Chemical Substances (ELINCS)	No	
Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Existing Chemicals List (ECL)	Yes	
New Zealand Inventory	Yes	
Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)

The information in this (M)SDS was obtained from sources which we believe are reliable but cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or warranty express or implied.

Alcohol-resistant foam, carbon dioxide or dry powder. Do not use a solid water stream as it may scatter and spread fire.

During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in European List of Notified Chemical Substances (ELINCS)

	No
Inventory of Existing and New Chemical Substances (ENCS)	Yes
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Country(s) or region	Inventory name On inventory

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Do not breathe mist or vapor. Avoid contact with skin and eyes. Local authorities should be advised if significant spillages cannot be contained. Stay upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Use personal protection recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Dike the spilled material, where this is possible. Following product recovery, flush area with water. Cover with plastic sheet to prevent spreading. Absorb spillage with Non-combustible, absorbent material. Small Spills: Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Environmental precautions

The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. Do not smoke. Avoid contact with skin, eyes and clothing. Do not breathe mist or vapor. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Use only in well-ventilated areas. Avoid prolonged exposure. Wash thoroughly after handling. Handle and open container with care.

7. Handling and storage

Precautions for safe handling

Follow rules for flammable liquids. Keep away from heat, sparks and open flame. Store in cool place. Keep in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep this material away from food, drink and animal feed. Use care in handling/storage. Keep away from sources of ignition - No smoking.

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Coconut oil (CAS 8001-31-8)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Mist

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
------------	------	-------	------

Coconut oil (CAS 8001-31-8)	TWA	5 mg/m ³	Respirable.
		10 mg/m ³	Mist.

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
------------	------	-------

Limonene (CAS 5989-27-5)	TWA	165.5 mg/m ³ 30 ppm
--------------------------	-----	-----------------------------------

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Follow standard monitoring procedures.
Appropriate engineering controls	Explosion proof exhaust ventilation should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment. Provide easy access to water supply or an emergency shower.
Individual protection measures, such as personal protective equipment. Eye/face protection Wear goggles/face shield.	Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves. Protective shoes or boots. Structural firefighter's protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Wear chemical protective equipment that is specifically recommended by the Personal Protective Equipment manufacturer.
Skin protection Hand protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.
Other	Wear appropriate thermal protective clothing, when necessary.
Respiratory protection	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Launder contaminated clothing before reuse. Remove and isolate contaminated clothing and shoes.

Thermal hazards

General hygiene considerations

9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	280 - 365 °F (137.78 - 185 °C)
Flash point	125.0 °F (51.7 °C) Tag Closed Cup

Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	0.9 %
Flammability limit - upper (%)	6.4 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	3 mm Hg (100°F/38°C)
Vapor density	3.99 (air=1)
Relative density	0.99
Solubility (ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity Chemical stability	Hazardous polymerization does not occur.
The product is stable and non-reactive under normal conditions of use, storage and transport. Risk of ignition. Stable at normal condition.	Heat, flames and sparks. Strong oxidizing agents. Strong acids. Strong bases. Carbon monoxide. Carbon dioxide. Sulfur oxides. Nitrogen oxides. Hydrocarbons.

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition products

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness or dizziness.
Skin contact	Causes skin irritation.
Eye contact	May cause eye irritation.
Ingestion	Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics	Irritating to eyes, respiratory system and skin. Irritation of nose and throat. Irritating to mucous membranes. Sensitization.
---	--

Information on toxicological effects

Acute toxicity	May cause discomfort if swallowed.
Skin corrosion/irritation	Serious eye damage/eye irritation

Respiratory or skin sensitization	Causes skin irritation. May cause eye irritation.
Respiratory sensitization	Not classified.
Skin sensitization	May cause allergic skin reaction.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Limonene (CAS 5989-27-5)	3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Not listed.	
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Further information	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

12. Ecological information

Eco toxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
------------	---------	--------------

Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)

Aquatic

Acute

Crustacea	EL50	Daphnia	4.5 mg/l, 48 hours
Fish	LL50	Oncorhynchus mykiss	10 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bio accumulative potential No data available for this product.

Partition coefficient n-octanol / water (log Kow)

Limonene (CAS 5989-27-5) 4.232

Mobility in soil No data available.

Mobility in general The product is insoluble in water.

Other adverse effects No data available.

13. Disposal considerations

Disposal instructions **Waste from residues / unused products**
Contaminated packaging

Local disposal regulations
Hazardous waste code

14.Transport information	Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies.
DOT	
UN number	Dispose in accordance with all applicable regulations. Dispose of in accordance with local regulations.
UN proper shipping name	
Transport hazard class(es)	Waste codes should be assigned by the user based on the application for which the product was used.
Class Subsidiary risk Label(s)	Dispose of in accordance with local regulations.
Packing group	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Environmental hazards	
Marine pollutant	UN1139 Coating solution 3 – 3 III Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions B1, IB3, T2, TP1 150

Packaging exceptions 203

Packaging non bulk 242

Packaging bulk

IATA

UN number UN1139

UN proper shipping name Coating solution

Transport hazard class(es) 3

Class Subsidiary risk - 3

Label(s) III

Packing group Yes 3L

Environmental hazards

ERG Code

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1139

UN proper shipping name COATING SOLUTION

Transport hazard class(es) 3

Class Subsidiary risk - 3

Label(s) III

Packing group

Environmental hazards

Marine pollutant EmS Yes

F-E, S -E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of **MARPOL 73/78 and the IBC Code**

General information

Not available.

IATA classification is not relevant as the material is not transported by air.

15.Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Coconut oil (CAS 8001-31-8)

US. New Jersey Worker and Community Right-to-Know Act

Coconut oil (CAS 8001-31-8)

Limonene (CAS 5989-27-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Coconut oil (CAS 8001-31-8)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical	Subs

tances
(EINE
CS) Yes

Europe Japan Korea
New Zealand

European List of Notified Chemical Substances (ELINCS) No
Inventory of Existing and New Chemical Substances (ENCS) Yes
Existing Chemicals List (ECL) Yes
New Zealand Inventory Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 19-May-2015

Revision date -

Version # 01

NFPA ratings



HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS)

The information in this (M)SDS was obtained from sources which we believe are reliable but cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or warranty express or implied.

