SURFKOAT

SAFETY DATA SHEET

Issue Date 08-May-2015 Revision Date 29-May-2015 Version 1

1. IDENTIFICATION

Product identifier

Product Name 60 Aliphatic Urethane - B

Other means of identification

Product Code FG00116 UN/ID no. 1263

Synonyms

Recommended use of the chemical and restrictions on use

Recommended Use Concrete Coating.

Uses advised against No Data

Details of the supplier of the safety data sheet

Manufacturer Address

Surface Koatings, Inc. 134 Davis Street Portland, TN 37148 Telephone (615) 323-9461

Emergency telephone number

Company Phone Number (615) 323-9461

24 Hour Emergency Phone Number 800-535-5053 (United States & Canada), International Call: 1-352-323-3500

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 5	
Acute toxicity - Inhalation (Vapors)	Category 4	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2A	
Carcinogenicity	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Aspiration toxicity	Category 2	
Flammable liquids Category 2, Hazardous to the Aquatic Environment - Long Term (Chronic) Hazard Category 2		

Label elements

Emergency Overview

Danger!

Hazard statements

Highly flammable

Suspected of Causing Cancer

Toxic to Aquatic Life with Long Lasting Effects

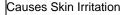
Causes Serious Eye Irritation

May Cause Respiratory Irritation

May Cause Drowsiness or Dizziness

May be Harmful if Swallowed

May be Harmful if Swallowed and Enters Airways





Appearance Transparent Liquid

Physical state liquid

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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 action to prevent static discharges

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

If skin irritation occurs: Get medical advice or attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention

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 CONTROL CENTER/doctor

Do NOT induce vomiting.

Take off contaminated clothing and wash before reuse

In case of fire use, "alcohol resistant" foam, dry chemical, halon or carbon dioxide to extinguish.

Collect spillage

Precautionary Statements - Storage

Store in well-ventilated place. Keep Cool. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance</u>

Chemical Name CAS No. Weight-% Trade Secret			
	Chemical Name	CAS No.	Trade Secret

Polyhexamethylene Diisocyanate	28182-81-2	60 - 100	*
n-Butyl acetate	123-86-4	10 - 30	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the

doctor in attendance.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Wash off immediately with soap and plenty of water. If skin irritation

persists, call a physician.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms

persist, call a physician.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT

induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Eye, Skin, and Respiratory Irritation. May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. For additional information, see Safety Data Sheet.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry Chemical, Alcohol Resistant Foam, Halon or Carbon Dioxide.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

In a fire or if heated a pressure increase may occur and the container may burst.

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide.

Explosion data

Sensitivity to Mechanical Impact Not available.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. P261 - Avoid breathing

dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains

or waterways.

Methods and material for containment and cleaning up

Methods for containmentPrevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

Methods for cleaning up

Use a non-combustible material like vermiculite or sand to soak up the product and place

into a container for later disposal. Use clean non-sparking tools to collect absorbed

material. Dispose according to local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Do not handle until all safety precautions have been read and understood. Avoid contact

with skin and eyes. Avoidbreathing dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and otherignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent thebuildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use onlyoutdoors or in a well-ventilated area. Wear protective gloves/protective

clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Incompatible materials Keep away from strong oxidizing agents, strong alkalis, and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Dimethyl Carbonate - CAS 616-38-6: None Established. Petroleum Naphtha, Light

Aromatic, CAS# 64742-95-6: OSHA 100 ppm TWA.

Chemical Name ACGIH TLV		OSHA PEL	NIOSH IDLH	
n-Butyl acetate STEL: 200 ppm TWA: 150 p		TWA: 150 ppm	IDLH: 1700 ppm	
123-86-4	TWA: 150 ppm	TWA: 710 mg/m ³	TWA: 150 ppm	
		(vacated) TWA: 150 ppm	TWA: 710 mg/m ³	
		(vacated) TWA: 710 mg/m ³	STEL: 200 ppm	
		(vacated) STEL: 200 ppm	STEL: 950 mg/m ³	
		(vacated) STEL: 950 mg/m ³	-	

Appropriate engineering controls

Engineering Controls General/Local Ventilation Recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash

skin immediately upon contact. Wash hands at mealtime and end of shift.

Respiratory protectionUse respiratory protection unless adequate local exhaust ventilation is provided or

exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29)

CC (closed cup)

CFR 1910.134) and use NIOSH/MSHA approved respirators.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before

and after breaks and at the end of the work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid

Appearance Transparent Liquid Odor Solvent

Color Transparent Liquid - May have slight Odor threshold No data available

color due to performance additives.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Not Available

pH Not Relevant
Melting point / freezing point Not Available

Boiling point / boiling range
Flash point

No Data Available
23°C 73 °F

Evaporation rate Solution Programme 25 C 75 F

Flammability (solid, gas)

Not Relevant
Flammability Limit in Air

Upper flammability limit: 7.6% Lower flammability limit: 1.7%

Vapor pressure
Vapor density

Not Available
Not Available

Relative density .98 @ 70 Degrees F Water solubility Insoluble in water Solubility in other solvents Not Available Partition coefficient Not Available **Autoignition temperature** Not Available **Decomposition temperature** Not Available Kinematic viscosity Not Available **Dynamic viscosity** Not Available **Explosive properties** Not Available

Other Information

Oxidizing properties

Softening point
Molecular weight
VOC Content (%)
Density
Not Available
Not Available
Not Available
Not Available

10. STABILITY AND REACTIVITY

Reactivity

Not Available

Chemical stability

Stable.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

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Revision Date 29-May-2015

Incompatible materials

Keep away from strong oxidizing agents, strong alkalis, and strong acids.

Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions, carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Direct contact and vapor inhalation.

Eye contact Direct contact.

Skin contact Direct contact.

Ingestion Direct contact.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyhexamethylene Diisocyanate 28182-81-2	-	-	= 18500 mg/m ³ (Rat) 1 h
n-Butyl acetate 123-86-4	-	> 17600 mg/kg (Rabbit)	= 390 ppm (Rat) 4 h

Information on toxicological effects

Symptoms May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes

serious eye irritation. Causes skin irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Irritating to eyes. Risk of serious damage to eyes. **Irritation** Irritating to eyes, respiratory system and skin.

Sensitization No data available.
Germ cell mutagenicity No data available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
Not Available.
Not Available.
Not Available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
n-Butyl acetate 674.7: 72 h Desmodesmus		17 - 19: 96 h Pimephales promelas	72.8: 24 h Daphnia magna mg/L
123-86-4	subspicatus mg/L EC50	mg/L LC50 flow-through 100: 96 h	EC50
		Lepomis macrochirus mg/L LC50	
		static 62: 96 h Leuciscus idus mg/L	
		LC50 static	

Persistence and degradability

No data available.

Bioaccumulation

No data available.

Chemical Name	Partition coefficient
n-Butyl acetate	1.81
123-86-4	

Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance

with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a

licensed professional waste disposal service to dispose of this material.

Contaminated packaging Dispose of in accordance with federal, state and local regulations.

Chemical Name	California Hazardous Waste Status
n-Butyl acetate	Toxic
123-86-4	

14. TRANSPORT INFORMATION

DOT UN1263, PAINT, 3, III

UN/ID no. 1263 **Hazard Class** 3 **Packing Group** 2

Marine pollutant Material is expected to be harmful to aquatic organisms. May cause long-term adverse

effects in the aquatic environment.

UN/ID no. 1263

UN/ID no. 1263

IATA UN1263, PAINT RELATED MATERIAL, 3, III

UN/ID no. 1263

IMDG UN1263, PAINT RELATED MATERIAL, 3, II

UN/ID no. 1263

UN/ID no. 1263

UN/ID no. 1263

UN Number 1263

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies

EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
n-Butyl acetate 123-86-4	5000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
n-Butyl acetate	5000 lb	-	RQ 5000 lb final RQ
123-86-4			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 3 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 2 Flammability 3 Physical hazards 0 Personal protection X

Issue Date 08-May-2015

Revision Date Revision Note 29-May-2015

No data available Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet