

SAFETY DATA SHEET

Issue Date 19-May-2016

Revision Date 03-August-2017

Version 1

1. IDENTIFICATION

Product identifier Product Name

Denatured Alcohol

Other means of identificationProduct CodeFG00208SynonymsFG00208

Recommended use of the chemical and restrictions on useRecommended UseIndustrial UseUses advised againstNo 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(615) 323-946124 Hour Emergency Phone Number800-535-5053 (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)

Flammable Liquids	Category 2
Acute Toxicity, Oral	Category 3
Acute Toxicity, Dermal	Category 3
Acute Toxicity, Inhalation	Category 3
Specific target organ toxicity, single exposure	Category 1

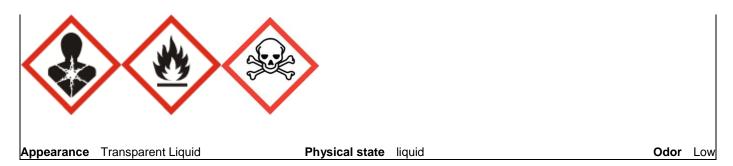
Label elements

Emergency Overview

Danger!

Hazard statements

Highly flammable liquid and vapor Toxic if swallowed Toxic in contact with skin Toxic if inhaled Causes damage to organs



Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/light/equipment, etc.

Use only non-sparking tools

Take precautionary measures to prevent static discharge

Do not breathe dust/fumes/gas/mist/vapors/spray

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated areas

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

Precautionary Statements - Response

IF SWALLOWED Immediately call a POISON CENTER or doctor/physician IF ON SKIN Wash with plenty of water IF ON SKIN Remove/take off immediately all contaminated clothing. Rinse skin with water IF INHALED Remove victim to fresh air and keep comfortable for breathing If exposed or concerned, call POISON CENTER/doctor/physician

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

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Hexone	108-10-1	< 1%	*
Methanol	67-56-1	15-20%	*
Ethyl Alcohol	64-17-5	75-80%	*

*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: Flush with water for 15 minutes. Seek immediate medical attention.	
Skin contact	IF ON SKIN (or hair): Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before use. If irritations persist, seek immediate medical attention.	
Inhalation	IF INHALED: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.	
Ingestion	IF SWALLOWED: If vomiting occurs, keep head below hips to prevent aspiration into lungs. Induce vomiting.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Eye, Skin, and Respiratory Irritation.	
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

Water fog, foam, CO2, dry chemical.

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

Special Fire Fighting Procedures

Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

Unusual Fire Fighting Hazards

Product is flammable and may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Vapors are heavier than air and may accumulate in low areas. Vapors may travel considerable distances to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, outdoors, or in sewers. If container is not properly cooled, it can explode in the heat of a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Keep all sources of ignition and hot metal surfaces away from spill or release. Evacuate all unprotected personnel from the area.	
Environmental precautions		
Environmental precautions	Prevent liquid from entering drains, sewers or waterways. Contain spill if it can be done with minimal risk. Notify proper authorities.	
Methods and material for containment and cleaning up		
Methods for containment	Use foam on spills to minimize vapors.	
Methods for cleaning up	Using only non-sparking tools and explosion proof equipment, collect spill on absorbent	

material and put into approved container.

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, includ	ing any incompatibilities
Storage Conditions	 NFPA Class I Storage. Vent container carefully before opening. Bond and ground all equipment when transferring from one vessel to another. The use of explosion-proof equipment is recommended. "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind, or expose such containers to heat, flames, sparks, or other ignition sources.

Keep containers tightly closed when not in use.Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Component Name	CAS#	OSHA PEL	ACGIH TLV
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm
Hexone	108-10-1	50 ppm	20 ppm
Methanol	67-56-1	200 ppm (Skin)	200 ppm (Skin)

Appropriate engineering controls			
Engineering Controls	Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.		
Monitoring	Follow accepted work practices for handling a flammable material. Do not eat, drink, or smoke in areas where this chemical is used or stored. Have eye wash stations and safety showers readily available.		
Individual protection measures, su	ch as personal protective equipment		
Eye/face protection	Googles or approved OSHA device with side shields; do not wear contact lenses when handling this product.		
Skin and body protection	Impervious solvent resistant gloves. Impervious apron and work boots recommended where splashing may occur.		
Respiratory protection	Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.		
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

Physical state Appearance Color

Property

pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Specific Gravity** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature Kinematic viscosity** Dynamic viscosity **Explosive properties Oxidizing properties**

Other Information

Softening point Molecular weight VOC Content (%) Density Bulk density Clear, colorless, liquid Clear Not Available Not Applicable 148 - 241 °F 55 - 59 °F 2.32 (Butyl Acetate=1)

Not Relevant

liquid

21.8% 3.65% 51.7 mmHg @ 20 °C 1.53 (Air=1) .79 (6.63#/Gal) Not Available Not Available

Not Relevant Not Available 100% (6.75#/Gal) Not Available Not Available Odor Odor threshold

Alcohol odor No data available

Remarks • Method

CC (closed cup)

10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid	Extreme heat and ignition sources
Hazardous Decomposition/Byproducts	CO, CO2, and various hydrocarbons under combustion conditions
Hazardous Polymerization	Will not occur
Polymerization Contions to Avoid	None
Incompatibilities	Strong Oxidizers

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

May cause irritation to the upper respiratory tract and CNS depression. Low to moderate

	degree of toxicity by inhalation.
Eye contact	Causes eye irritation including stinging, watering and redness which may result in corneal injury.
Skin contact	Contact may cause mild skin irritation including redness, burning, and drying/cracking of the skin.
Ingestion	Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and ederma. Moderate to high degree of toxicity by ingestion. May be harmful or fatal if swallowed. May produce CNS depression and kidney damage which may be fatal.
Acute Toxicity Value	See Health Hazards below.
Chronic (Long Term) Effects	See Health Hazards below.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Alcohol	Rat – 7,060 mg/kg	-	Rat – 10 h – 20000 ppm
Hexone	Rat – 2,080 mg/kg	Rabbit - > 16,000 mg/kg	Rat – 4 h – 8.2 – 16.4 mg/m3
Methanol	Human – 143 mg/kg Rat – 1,187 –	-	Rat – 4 h – 128.2 mg/l Rat – 6 h –
	2,769 mg/kg		87.6 mg/l

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

Reproductive Effects	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Sensitization to Product	Not Available
Synergistic Products	Not Available
Carcinogenicity	Not Listed as Carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity	Information not available.
Mobility	Information not available.
Degradability	Information not available.
BioAccumulation	Information not 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.

14. TRANSPORT INFORMATION

DOT	UN1987, Alcohols, N.O.S. (Contains Ehtyl Alcohol, D-4), 3, II
IATA	UN1987, Alcohols, N.O.S. (Contains Ehtyl Alcohol, D-4), 3, II
IMDG	UN1987, Alcohols, N.O.S. (Contains Ehtyl Alcohol, D-4), 3, II

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

<u>SARA 313</u>

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

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)

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)

US State Regulations

California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

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

<u>NFPA</u> <u>HMIS</u>	Health hazards 3 Health hazards 3	Flammability 3 Flammability 3	Instability 0 Physical hazards 0	Physical and Chemical Properties - Personal protection -
Issue Date Revision Date Revision Note	19-May-2016 03-August-2017			

No data available

<u>Disclaimer</u>

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