

Issue Date 22-May-2015

Revision Date 27-May-2015

Version 1

1. IDENTIFICATION

Product identifier

Product Name Penetrating & Mottling Agent

Other means of identification

Product Code FG00080

Synonyms

Recommended use of the chemical and restrictions on use

Recommended Use Acetone Concrete Dye Retarder.

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 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Aspiration toxicity | Category 1 |
| Flammable Liquid Category 4 | |

Label elements

Emergency Overview

Danger!

Hazard statements

Combustible Liquid
 May be fatal if swallowed and enters airways
 Harmful if swallowed
 Causes skin irritation
 Causes serious eye irritation



Appearance Transparent Liquid **Physical state** liquid **Odor** Mild sweet, ester

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Wash hands 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

Precautionary Statements - Response

In case of fire use, "alcohol resistant" foam, dry chemical, halon or carbon dioxide to extinguish.
 IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice or attention.
 Take off contaminated clothing and wash before reuse
 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 SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor
 Do NOT induce vomiting.

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)

None known

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|---------------|-------------|----------|--------------|
| Proprietary | Proprietary | 60 - 100 | * |

*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.

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 Not Applicable.

Specific hazards arising from the chemical

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

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 containment Prevent 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors 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 2-Butoxyethanol - CAS# 111-76-2: OSHA 50ppm TWA.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------|-------------|--|--|
| Proprietary | TWA: 20 ppm | TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S* | IDLH: 700 ppm TWA: 5 ppm TWA: 24 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 protection Use 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 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 | Odor | Mild sweet, ester |
| Appearance | Transparent Liquid | Odor threshold | 0.48 ppm |
| Color | Transparent Liquid | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|------------------------|-------------------------|
| pH | Not Relevant | |
| Melting point / freezing point | Not Applicable - 75 °C | |
| Boiling point / boiling range | 171 °C | |
| Flash point | 67 °C (152 °F) | CC (closed cup) |
| Evaporation rate | 0.1 | |
| Flammability (solid, gas) | Not Relevant | |
| Flammability Limit in Air | | |
| Upper flammability limit: | Not Available | |
| Lower flammability limit: | Not Available | |
| Vapor pressure | Not Available | |
| Vapor density | 4 | |
| Relative density | .90 @ 70 Degrees F | |
| Water solubility | 900 g/l (25 °C) | |
| 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 | |
| Oxidizing properties | Not Available | |

Other Information

| | |
|------------------|----------------|
| Softening point | Not Relevant |
| Molecular weight | Not Available |
| VOC Content (%) | Not Applicable |
| Density | Not Available |
| Bulk density | 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.

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 |
|---------------|---------------------|------------------------|-----------------------|
| Proprietary | = 470 mg/kg (Rat) | = 220 mg/kg (Rabbit) | = 450 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 Causes severe burns. 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 Rat, Male and Female: Inhalation ; OECD Test No. 451: Carcinogenicity Studies; Remarks: negative.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------|-------|---------|-----|------|
| Proprietary | A3 | Group 3 | - | - |

Reproductive toxicity Not Available.
STOT - single exposure Not Available.
STOT - repeated exposure Not Available.
Aspiration hazard 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 |
|---------------|----------------------|--|--|
| Proprietary | - | 1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50 | 1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 |

Persistence and degradability

No data available.

Bioaccumulation

No data available.

| Chemical Name | Partition coefficient |
|---------------|-----------------------|
| Proprietary | 0.81 |

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.

14. TRANSPORT INFORMATION

DOT
Marine pollutant Combustible Liquid. Not regulated by domestic ground transportation
 Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

IATA UN1993, Combustible Liquid, n.o.s. (ethylene glycol monobutyl ether), 3, III

IMDG UN1993, Combustible Liquid, n.o.s. (ethylene glycol monobutyl ether), 3, III

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 | No |
| 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> | Health hazards 2 | Flammability 2 | Instability 1 | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 2 | Flammability 2 | Physical hazards 1 | Personal protection X |

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Revision Note
 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