# **SAFETY DATA SHEET**

**Issue Date** 22-May-2015 **Revision Date** 27-May-2015 **Version** 1

# 1. IDENTIFICATION

Product identifier

Product Name Armour Dye Penetrating Agent

Other means of identification

Product Code 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

**Distributor Address** 

Deco Crete Supply 133 North Kohler Road Orrville, OH 44667

Emergency telephone number

Company Phone Number (330) 682-5678

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

Revision Date 27-May-2015

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	*

<sup>\*</sup>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.

**Eve 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/vapors/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	IDLH: 700 ppm
		TWA: 240 mg/m <sup>3</sup>	TWA: 5 ppm
		(vacated) TWA: 25 ppm	TWA: 24 mg/m <sup>3</sup>
		(vacated) TWA: 120 mg/m <sup>3</sup>	_
		(vacated) S*	
		S*	

#### 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 workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

**Appearance** Transparent Liquid Odor Mild sweet, ester

Color Transparent Liquid **Odor threshold** 0.48 ppm

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

Not Relevant

Melting point / freezing point Not Applicable - 75 °C

171 °C

Boiling point / boiling range

67 °C Flash point (152 °F) CC (closed cup)

0.1

**Evaporation rate** 

Flammability (solid, gas) Not Relevant Flammability Limit in Air

Upper flammability limit:Not AvailableLower flammability limit:Not AvailableVapor pressureNot 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 Not Available **Autoignition temperature Decomposition temperature** Not Available Kinematic viscosity Not Available **Dynamic viscosity** Not Available **Explosive properties** Not Available **Oxidizing properties** Not Available

### **Other Information**

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

# 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
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
Proprietary	-	1490: 96 h Lepomis macrochirus	1698 - 1940: 24 h Daphnia magna
		mg/L LC50 static 2950: 96 h	mg/L EC50 1000: 48 h Daphnia
		Lepomis macrochirus mg/L LC50	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** Combustible Liquid. Not regulated by domestic ground transportation

Marine pollutant 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

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS 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 hazardYesChronic Health HazardYesFire hazardYesSudden release of pressure hazardNoReactive HazardNo

### **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

NFPA Health hazards 2 Flammability 2 Instability 1 Physical and Chemical

Properties -

**HMIS** Health hazards 2 Flammability 2 Physical hazards 1 Personal protection X

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 Revision Date
 27-May-2015

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**