

SAFETY DATA SHEET



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Version: 2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duraguard 401, Part B Promoter

Product Synonym: Duraguard Series Promoter

Other Means of Identification: SDS #: F5345B

Recommended Use: Curing Promoter for Duraguard Series High Molecular Weight Methacrylate Penetrating Sealer Products including "Duraguard 401, Penetrating sealer and crack sealer for concrete".

Restrictions on Use:

- Do NOT mix Duraguard Series Promoter directly to Duraguard Series Catalyst. A dangerous chemical reaction can occur.
- Do NOT add Duraguard Series Promoter to Duraguard 401-P; Duraguard 401-P2; Duraguard 401-P3 as this Product is Pre-Mixed Resin & Promoter.

Supplier of the Safety Data Sheet including Address:

ChemMasters Inc.
300 Edwards Street
Madison, OH 44057

Telephone Numbers

Company Phone Number

Phone: 800-486-7866, 440-428-2105
Fax: 440-428-7091

Emergency Telephone : ChemTrec 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Flammable Liquid, may cause eye, skin & respiratory irritation, may be fatal if swallowed and enters airways, may cause allergic skin reaction, suspected of damaging fertility or the unborn child.

Target Organs: Eyes, Skin, Respiratory System

GHS Classification

Flammable Liquids Category 3
Specific target organ toxicity – single exposure Category 3
Aspiration Hazard Category 1
Acute Toxicity, Inhalation Category 4
Acute Toxicity, Oral Category 4
Reproduction Toxicity – Category 2

Label Elements, including precautionary statements



Signal Word: Danger

Hazard Statements:

H226	Flammable Liquid and Vapour
H302	Harmful if swallowed
H332	Harmful if inhaled
H335	May cause respiratory irritation
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child.

Precautionary Statement(s)

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233	Keep container tightly closed.
P240	Ground and bond the container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash hands and skin thoroughly after handling.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P361+P353	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P330	Rinse mouth
P331	Do NOT induce vomiting.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P370+P378	In case of fire use, dry chemical, alcohol resistant foam, halon or carbon dioxide to extinguish.

Storage: P403+P235+P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405 Store Locked Up

Disposal: P501 Dispose of contents/container in accordance with local/regional/national regulations.

Hazards not otherwise classified: May cause eye & skin irritation. Repeated exposure may cause skin dryness and cracking.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

Cobalt 2-Ethylhexanoate	CAS#: 136-52-7	65%
Petroleum Hydrocarbon Solvent	CAS#: 8052-41-3	35%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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 or attention.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth if conscious.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice or attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam, dry chemical, halon or carbon dioxide

Specific Hazards Arising from the Chemical

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

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Hazardous Combustion Products

Carbon dioxides & Carbon monoxide

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and full protective gear for firefighting.

Further Information

Use water spray to cool unopened containers. See Section 7 for safe handling and storage

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways.

Methods and Material for Containment and Cleaning Up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE

Precautions for 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 the 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.

Additional Safe Handling Information: None

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry, cool and well ventilated place.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Component Exposure Limits

Petroleum Hydrocarbon Distillates, CAS# 8052-41-3: ACGIH TLV TWA: 100 ppm 8 hours; OSHA PEL: TWA 500 ppm; NIOSH REL: TWA 350 mg/m³, NIOSH Ceiling: 1800 mg/m³

Cobalt 2-Ethylhexanoate: ACGIH TLV TWA 0.02 mg/m³ as Cobalt

Appropriate Engineering Controls

Local Ventilation: Recommended

General Ventilation: Recommended

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Use proper protection – Safety Glasses as a minimum

Skin and Body Protection: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

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 & after breaks and work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: Dark

Color: Purple

Odor: Petroleum Solvent Odor

Odor threshold: No Data

<u>Property</u>	<u>Value</u>	<u>Remarks – Method</u>
Vapor Pressure	2 mm Hg @ 68 Degrees F	
Vapor Density	Heavier than air	
Relative Density	Not Available	
pH:	Not Relevant	
Melting/Freezing Point	Not Relevant	
Solubility	Not Available	
Evaporation Rate	Slower than ether	
Flash Point	38 Degrees C (100 Degrees F)	PM (D93) Closed Cup
Flammability Limits	Lower Limit: 0.7% Upper Limit: 8.9%	
Flammability (Solid, gas)	Not Relevant	
Auto Ignition Temperature	445 Degrees F	
Initial Boiling Point/Boiling Range	313-390 Degrees F	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	1.01 at 25 Degrees C	8.4 +/- 0.01 Lbs./gal.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Heat, Flames and Sparks. Minimize exposure to air.

Incompatible Materials: Keep away from strong oxidizing agents.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions, Carbon oxides, cobalt oxides.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact.
Ingestion is not an anticipated route of exposure for this material in industrial use.

Symptoms of Exposure:
Product may cause respiratory, eye and skin irritation.
Product may cause headache, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:
Repeated Exposure may cause skin dryness and cracking.

Aspiration Hazard: May cause chemical pneumonitis (aspiration of liquid) if swallowed and enters airways.

Carcinogenicity: No component of this product is present at levels greater than or equal to 0.1% is identified by ACGIH, OSHA or NTP as a carcinogen or suspected carcinogen. Cobalt (II) 2-ethylhexanoate is considered possibly carcinogenic to humans by IARC.

Other Chronic Effects: Product is suspected of damaging fertility or the unborn child.

Numerical Measures of Toxicity

Petroleum Hydrocarbon Solvent : LD50 Oral Rat: >7,000 mg/kg; LD50 Dermal Rabbit >2,000 mg/kg, Inhalation LC50 21 mg/l 1 hr.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Material is expected to be toxic to aquatic organisms. It may cause long-term adverse effects in the aquatic environment.

Acute Toxicity: Vertebrates

Components:

Petroleum Hydrocarbon Solvent: LC50 Fathead Minnow, 96 hr, 8.2 mg/l

Acute Toxicity: Invertebrates

Components:

Petroleum Hydrocarbon Solvent: EC50 Water Flea, 48 hr, 32 mg/l

Acute Toxicity: Aquatic Plants

Petroleum Hydrocarbon Solvent: EL50, 96 hr, 45 mg/l

Chronic Survival Toxicity: Vertebrates

Components:

Petroleum Hydrocarbon Solvent: Aquatic Vertebrates, LL50 8 mg/l

Chronic Survival Toxicity: Invertebrates

Components:

Petroleum Hydrocarbon Solvent: EL50 Water Flea (Daphnia magna), 21 days, >40 mg/l

Chronic Toxicity to Aquatic Plants: No Data

Persistence and Degradability: No Data.

Bioaccumulation: No Data

Mobility: No Data

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 as unused product.

14. TRANSPORT INFORMATION

DOT

UN1263, PAINT RELATED MATERIAL, 3, III

Packaging Exception for ≤ 1 gal cans, 5 gallon pails & 55 gallon drums, *Ground Shipments Only.*

49 CFR 173.120(b)(2) A flammable liquid with a flash point at or above 38°C (100°F) that does not meet the definition of any other hazard class may be re-classed as a combustible liquid.

This product has a flash point at or above 38°C (100°F). It is therefore excepted from labeling requirements ..., specification packaging ..., and shipping papers... **if shipped in non-bulk packaging. Non-bulk packaging** means a packaging which has a maximum capacity of 450 Liters (119 gallons) or less as a receptacle for a liquid. Therefore, when shipped by ground in non-bulk packaging (≤ 119 gal.), this item is not DOT regulated.

This provision does not apply to transportation by vessel or air.

IATA

UN1263, PAINT RELATED MATERIAL, 3, III

IMDG

UN1263, PAINT RELATED MATERIAL, 3, III

Marine Pollutant: No

15. REGULATORY INFORMATION

International Inventories

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

US Federal Regulations

SARA 302: None

SARA 311/312 Hazard Categories: Acute: Yes, Fire: Yes, Chronic: Yes

SARA 313 Hazard Categories:

<u>Component Name</u>	<u>Wt. %</u>
Cobalt Compounds	65%

CWA (Clean Water Act): This product contains petroleum hydrocarbons and may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

Supplemental State Compliance Information

California:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm; **Benzene – Carcinogen, Birth Defects**

This product may contain trace amounts of other components known to the State of California to cause cancer, birth defects or other reproductive harm.

States Right To Know:

Cobalt 2-Ethylhexanoate, CAS#: 136-52-7; New Jersey, Pennsylvania

U.S. EPA Label Information: No Data

16. OTHER INFORMATION

HMIS Classification:

Health hazard: 2*
Flammability: 2
Physical Hazards: 0

NFPA Rating:

Health hazard: 2
Fire: 2
Reactivity Hazard: 0

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Revision Note: Reviewed and Updated

Date of Previous Version: October 14, 2014

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 guide 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