

Safety Data Sheet

Dura-Coat 910 Membrane - Activator

Evaluation date: 27.10.2023

Section 1: Identification of the substance/mixture and the company/company

1.1. Product Identifier: Dura-Coat Membrane 910 Activator

1.2. Identified relevant uses of the substance or mixture and uses

Substance use/mixture

Dura-Coat polymeric compound. It is blended with Dura-Coat Membrane 910 base to provide protection in corrosive environments.

Inappropriate uses

No information available

1.3. Safety Data Sheet Supplier Details

Company Info Company Name: Dura-Coat Industrial, Inc.

Street: 5401 Haverhill Rd. Unit 106. West Palm Beach, FL 33407 USA

Phone: +1 (561) 757-5620

E-mail: dura-coat@dura-coat.net

Internet: www.dura-coat.net

1.3. Emergency Phone: +1 (561) 757-5620

Section 2: Identifying Risks

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Risk Categories:

Skin corrosion/irritation: Skin irritation. 2

Respiratory or skin sensitization: Sens.Piel. 1

Hazardous to the aquatic environment: 2

Risk Statements:

It causes skin irritation.

It can cause an allergic reaction on the skin.

Toxic to aquatic life with long-lasting effects.

2.2. Label Elements

Regulation (EC) No 1272/2008

Signal Word: Danger



Pictograms:

Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 may cause an allergic skin reaction.
H412 Harmful to aquatic organisms, with long-lasting effects.

Precautionary Statements

Prevention:

P261: Avoid breathing dust/smoke/gas/mist/vapors/aerosols.
P264 Wash the skin thoroughly after handling.
P270 Do not eat, drink, or smoke while using this product.
P272 Contaminated work clothing should not leave the workplace.
P273 Avoid release into the environment.
P280 Wear protective gloves/protective clothing/eye protection/face shield.

Answer:

P301 + P312 + P330 IF INTAKE: Call a doctor if you feel unwell. Rinse your mouth.
P301 + P330 + P331 SE INTAKE: Rinse mouth. Do not induce vomiting.
P303 + P361 + P353 IN CASE OF CONTACT WITH SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/bath.
P304 + P340 + P310 IN CASE OF Inspiration: Take the person outside and stay comfortable to breathe. Call a doctor immediately.
P305 + P351 + P338 + P310 IN CASE OF CONTACT WITH EYES: Rinse the water carefully for several minutes. Remove contact lenses if they are present and are easy to manufacture. Continue rinsing. Call a doctor immediately.
P333 + P313 If skin irritation or rash occurs: consult a physician.
P363 Wash contaminated clothing before using it again.

Storage:

P405 Store closed.

Layout:

P501 Dispose of the contents/container in an approved facility in accordance with local, regional, national, and international regulations.

2.3. Other hazards

This product is classified as hazardous as defined in OSHA's GHS hazard communication. Standard 29CFR1910. 1200. Health and safety hazards are detailed separately for the Activator and Base ASE. The final cured material is considered non-hazardous. When machining, refer to the safety data sheet precautions for the Activator and Base.

Section 3: Composition/Ingredient Information

3.1 Substances

N/A

3.2 Mixes

Component	CAS Number	Composition
Benzyl alcohol	100-51-6	1-25%
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	1-5%
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with Phenylenebis(methylamine)	110839-13-9	5-20%
M-Phenylenebia (Methylamine)	1477-55-0	1-5%

Salicylic acid	69-72-7	1-5%
Silicon and Siloxanes	677762-90-7	1-5%
3-Glycoxypropyltrimethoxysilane	2530-83-8	1-5%
Titanium Dioxide*	13463-67-7	<1%
Bauxite	1344-28-1	20-60%

The specified values are typical and do not represent a specification. The remaining components are proprietary, non-hazardous and/or present in quantities below the reportable limits. Exact percentage values of components are proprietary, according to 29 CFR 1910.1200(i). *Contains particles less than 1% with an aerodynamic diameter < 10 micrometers.

Section 4: First Aid Measures

4.1. Description of first aid measures

General Information

Change contaminated and saturated clothes. In the event of an accident or discomfort, consult a doctor immediately (show the instructions for use or the safety data sheet if possible).

After inhalation

In case of inspiration, take the person to fresh air and keep at rest in a comfortable position to breathe; if breathing is irregular, provide artificial respiration; If there are breathing difficulties, administer oxygen; Seek medical attention.

After skin contact

After contact with the skin, wash immediately with plenty of soap and water. Seek medical advice immediately.

Do not wash with: solvents/thinners

After eye contact

Bathe the eye with running water for at least 15 minutes, lifting the upper and lower eyelids, and then immediately consult an ophthalmologist.

After ingestion

If swallowed accidentally, rinse your mouth with plenty of water (only if the person is conscious) and seek immediate medical attention. DO NOT induce vomiting

4.2. The most important symptoms and effects, both acute and

Harmful if swallowed and inhaled; can cause severe skin burns and eye damage; Sensitizer.

4.3. Indication of any immediate medical attention and special treatment required

First aid, decontamination, treatment of symptoms.

Eyewash stations and emergency showers should be available.

Section 5: Fire suppression measures

5.1. Means of extinction

Adequate means of extinguishing

Dry powder extinguisher. Carbon dioxide (CO₂). Alcohol-resistant foam.

Inadequate means of extinguishing

Full waterjet

5.2. Special hazards arising from the substance or mixture



5.3. Advice for firefighters

Additional information: Separately collect contaminated firefighting water. Do not allow drains or surface water to enter.

Section 6: Accidental Release Measures

6.2. Environmental precautions

6.3. Containment and cleaning methods and equipment

6.4. Reference to other sections

Section 7: Handling and Storage

7.1. Precautions for Safe Handling

Fire and explosion protection tips: Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.

7.2. Safe storage conditions, including any incompatibilities

Warehouse and vessel requirements

Learn more about storage conditions

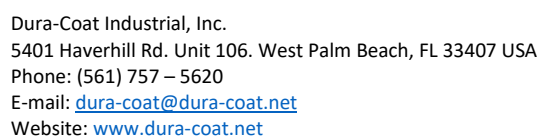
Avoid moisture and heat incompatibilities:

Do not store together with strong oxidizing agents.

7.3. Specific end use(s)

Section 8: Exposure/Personal Protection Controls

8.1 Control Parameters



4

Occupational Exposure Limits: None Designated

The WEEL (Environmental Exposure Level in the Work Environment) recommended by AIHA for benzyl alcohol is 10 ppm (8h-TWA) (45 mg/m³).

8.1.2 Recommended Follow-up Procedures

If this product contains ingredients with exposure limits, a personal, environmental, or biological environment may be required to determine the effectiveness of ventilation or other control measures and/or the need to wear respiratory protective equipment. Reference may be made to the European standard EN 689 for methods for the assessment of inhalation exposure to chemical agents for the determination of hazardous substances.

8.2. Exposure controls

Proper engineering controls

Provide adequate ventilation as well as local exhaust in critical locations

Protection and hygiene measures

Work in well-ventilated areas or wear adequate respiratory protection. Just wear fit, comfortable, and clean protective clothing. Avoid contact with skin, eyes, and clothing. Wash your hands and face before breaks and after work, and shower if necessary.

Eye/Face Protection

Adequate eye protection: Glasses with side protection (glasses). See OSHA 29CFR1910.133 and the European Standard EN166.

Hand protection

Nitrile or butyl gloves should be worn.

Skin protection

Wear waterproof clothing as needed to protect against contact with the product. The need for boots, apron, visor, etc., will depend on the hazards presented in the work process. See standards CFR1910.132 and CFR1910.136 for OSHA-approved standards for protective apparel and footwear.

Respiratory protection

Personal respiratory protection is usually not required. If technical escape or ventilation measures are not possible or insufficient, respiratory protection should be worn. Combined filter device (EN 14387) A-P3. Self-contained ventilator (respiratory system) (DIN EN 133).

Other Protective Equipment: The type and grade of appropriate personal protective equipment will depend on the specific operation of the job. Eyewash stations and emergency showers should be available. Inspect and replace personal protective equipment regularly: use professional care in selection, use, and care.

8.3 Environmental Exposure Controls

Take every precaution to avoid contamination of soil and waterways.

Section 9: Physical and Chemical Properties

9.1.	Basic	Physical	and	Chemical	Properties	Information
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9.1.1 General Information:

Appearance: Viscous Liquid

Color: Beige

Odor Type: Slight Amine-like

Odor Threshold: No data available

9.1.2 Important health, safety and environmental information:

Boiling Point: >205°C (>401°F)

Melting Point: No data available

Intention Point: >117°C (>243°F) (cc)

Autoignition temperature: No data available

Decomposition Temperature: No data available

Flammability Limits (Lower/Upper): No data available

Vapor Pressure: No data available
Vapor density (Air = 1): No data available
Evaporation Rate (BuAc-1): No Data Available
Specific Gravity: 1.52
Water Solubility: Partially Soluble
pH: No data available
Viscosity: 2500-7000 cp. at 25°C
Explosive Properties: Non-Explosive
Oxidizing properties: Not determined
Molecular Formula: (Mixing)
VOC Content: <1%

9.2. Other information No information available

Section 10: Stability and Reactivity

10.1. Reactivity

There are no known hazardous reactions under normal use and storage.

10.2. Chemical stability

It does not deteriorate when used for intended uses. No known hazardous decomposition products

10.3. Possibility of dangerous reactions

Mixtures with strongly acidic materials. They can produce an exothermic reaction.

10.4. Conditions to be avoided

Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.

10.5. Incompatible Materials

Acids, oxidizing agents, epoxies, isocyanates.

10.6. Hazardous decomposition products

Does not degrade when used for intended uses

Thermal decomposition generates carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11: Toxicological Information

11.1. Information on toxicological effects

Acute oral toxicity: LD50 (rat): 690 mg/kg (ATE)

Acute skin toxicity: LD50 (rabbit): 2188 mg/kg (ATE)

Acute inhalation toxicity: LD50 (rabbit): >900 mg/m³ (salicylic acid)

Skin Corrosion/Irritation: Draize Test: Rabbit/Skin: Irritant

Severe Eye Damage/Irritation: Draize Test: Rabbit/Eye: Irritant

Skin sensitization (guinea pig): Sensitizer

Germ cell mutagenicity: Not classified as mutagenic

Carcinogenicity: Not classified as carcinogenic. It is not listed on the OSHA/NTP/IARC list.

Reproductive toxicity: Not classified as toxic to reproduction

Target Organ Specific Toxicity - Single Exposure (STOT-se): Product not classified based on available data.

Target Organ Specific Toxicity - Repeated Exposure (STOT-re): May cause liver and skeletal muscle damage from prolonged or repeated oral exposure.

NOAEL: (oral, rat): 15 mg/kg body weight per day.

Risk of aspiration: Aspiration that occurs during vomiting can cause lung damage.

Possible health effects:

Skin contact: May cause irritation, itching, redness, inflammation; may be absorbed through the skin and CNS effects of the skin; may cause allergic reaction.

Eye contact: Causes severe eye damage; fumes are irritating and can cause eye damage; contact can cause severe burns and permanent eye damage, including blindness.

Ingestion: Harmful if ingested; can cause severe and permanent damage to the mouth, throat, and stomach; tangling leads to perforation of the intestine.

Inhalation: Harmful if inhaled; may cause severe irritation of the respiratory tract; may cause CNS symptoms including headache, nausea, mental fog, blurred vision, fatigue, dizziness, and loss of coordination; prolonged excessive exposure may cause respiratory failure.

Chronic health effects:

Skin sensitizer: Once sensitized, a severe allergic reaction can occur when exposed to extremely low levels. After repeated oral exposure at high doses, the substance causes adverse effects on the liver and kidneys.

Additional data:

RTECS No. GV5020833 (PACM)

RTECS No. DN3150000 (Benzylic Alcohol)

RTECS No. VO0525000 (Salicylic Acid)

Section 12: Ecological Information

12.1. Toxicity

12.1.1 Acute/long-term toxicity to fish

LC50 (freshwater fish) (96 hours): 10 mg/l (ATE)

12.1.2 Acute/long-term toxicity to aquatic invertebrates

EC50 (Daphnia magna) (48 hours): 10 mg/l (ATE)

12.1.3 Acute/prolonged toxicity to aquatic plants

EC50 (algae)(72 hours): 16 mg/l (ATE)

12.1.4 Toxicity to bacteria, soil-dwelling organisms and terrestrial plants

No data available

12.1.5 Chronic Toxicity to Aquatic Organisms

Long-lasting adverse effects on aquatic organisms.

12.1.6 General effect

Harmful to aquatic life with long-lasting effects.

12.2 Persistence and degradability

It is not easily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Ground mobility

No data available; Do not allow the product to enter the ground/subfloor.

12.5 Results of the evaluation of PBT and vPvB (Reg. EC 453/2010)

Product not classified as persistent, bioaccumulative and toxic

Product not classified as very persistent or very bioaccumulative

The substances present in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

12.6 German WGK Rating

WGK No. 1 (Self-Assessment)

12.7 Other Adverse Effects

Neutralization may be required prior to dumping to wastewater treatment plants.

Section 13: Disposal Considerations

13.1. Waste treatment methods

Disposal advice

Dispose of waste in accordance with applicable law. Do not dump on land, sewers, or waterways. Incinerate or otherwise dispose of in compliance with all applicable federal, state, and local environmental control laws and regulations. Characterization of waste in accordance with RCRA guidelines and compliance with applicable laws is the sole responsibility of the waste generator.

Contaminated packaging



Dura-Coat 910 Membrane

Uncontaminated packaging can be recycled. Dispose of waste in accordance with applicable law.

Section 14: Transportation Information

14.1 Shipment Description

Non-hazardous material

Unregulated

Correct description of DOT submission: Not regulated

IMDG: Not Regulated

IATA: Not regulated

Section 15: Regulatory Information

15.1. Safety, health and environmental standards/legislation specific to the substance or mixture

Sara Title III Section 311/312 (40CFR370): Acute toxicity, skin corrosion or irritation, severe eye injury, or eye irritation.

SARA Title III Section 313 (40CFR372): Notifiable Components

CERCLA Status (40CFR302): No Reportable Components (Release of hazardous substance into the environment in an amount equal to or greater than its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)

RCRA Status (40CFR261): Not Listed

OSHA/NTP/IARC Carcinogen Status: Not Listed

TSCA Inventory Status: Reported/Included

DSL Status in Canada: Reported/Included

WHMIS Status in Canada: D2B, E

Chemicals known to the state of California to cause cancer or reproductive toxicity: None of these are known to be present in the product at levels that require warning.

Annex REACH XIV (SVHC)

No components listed

REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles)

No components listed

REACH Status (EC 1907/2006): This material has been registered, pre-registered, or is exempt from registration under the Registration, Evaluation, and Authorization of Chemicals.

15.2. Chemical Safety Assessment - Not Available

Section 16: Other Information

HMIS Ratings:

Health: 2

Flammability: 1

Reactivity: 0

(The selection of personal protective equipment is best assigned by the user after the risk is realized evaluation of the product, as it must be used in the specific work process.)



National Chemical Stocks - All components of this product are listed in the following chemical stocks:

TSCA (United States)

DSL (Canada)

EINECS (Europe)

ENCS (Japan)

ECL (Korea)

AICS (Australia)

PICCS (Philippines)

IECSC (China)



Dura-Coat Industrial, Inc.
5401 Haverhill Rd. Unit 106. West Palm Beach, FL 33407 USA
Phone: (561) 757 – 5620
E-mail: dura-coat@dura-coat.net
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Issue date: 27/10/2023

NZIoC (New Zealand)

Abbreviations and acronyms:

ADR: Accord Européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
ACGIH American Conference of Governmental Industrial Hygienists
AICS Australian Chemical Inventory
American Industrial Hygiene Association
Acute Toxicity Estimate of ATE
RID: Règlement international de l'Organisation des Nations Unies pour le transport des marchandises dangereuses par chemin de fer
(Regulations on the International Carriage of Dangerous Goods by Rail)
IMDG: International Maritime Dangerous Goods Code
Recommendations of the BfR Bundesinstitut für Risikobewertung for food contact materials
Bioconcentration Factor BCF
CAS: Chemical Service Summary (division of the American Chemical Society)
CERCLA Comprehensive Law on Environmental Response, Offsetting, and Environmental Liability
CLP: Regulation on Classification, Labeling and Packaging of Substances and Mixtures
DOT Department of Transportation
DNEL: Level with no derived effect
DSL Household Substances List
European Inventory of Existing Chemicals EINECS
List of Existing ECL Chemicals (Korea)
EC50: Effective concentration, 50%
ENCS Inventory of Existing and New Chemicals (Japan)
EN 689 Work Environments – Guidance for Assessment of Inhalation Exposure
Chemical agents for comparison with limit values and measurement strategy
ERG Emergency Response Guide
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS Hazardous Materials Information System
IARC International Agency for Research on Cancer
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization
ICAO-IT: Technical Instructions of the "International Civil Aviation Organization" (ICAO)
IDLH immediately dangerous to life and health
IMDG International Dangerous Sea Goods
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50%
MAK Maximale Arbeitsplatz Konzentration
NOAEL No observable level of adverse effect
NTP National Toxicology Program
OEL Occupational Exposure Limit
OSHA Occupational Safety and Health Administration
Persistent, bioaccumulative and toxic PBT
PNEC: Concentration with no expected effect
vPvB: very persistent and very bioaccumulative
PEL Allowable Exposure Limit
Philippine PICCS Inventory of Commercial Chemicals
PNEC predicts concentration without effect
Registration, Evaluation and Authorization of REACH Chemicals



Dura-Coat 910 Membrane

RID International Transport of Dangerous Goods by Rail
SARA Superfund Amendments and Reauthorization Act
STEL Short-Term Exposure Limit
SVHC Substance of Very High Concern
TLV threshold threshold value
TSCA Toxic Substances Control Act
TWA Time-Weighted Average
VOC Volatile Organic Compound
WEEL's Workplace Environmental Exposure Level
WGK Wassergefährdungsklasse (Water Hazard Class)
WHMIS Workplace Hazardous Materials Identification System

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Dura-Coat Industrial, Inc.
5401 Haverhill Rd. Unit 106. West Palm Beach, FL 33407 USA
Phone: (561) 757 – 5620
E-mail: dura-coat@dura-coat.net
Website: www.dura-coat.net

Issue date: 27/10/2023

Safety Data Sheet

Dura-Coat 910–Base Membrane

Evaluation date: 27.10.2023

Section 1: Identification of the substance/mixture and the company/company

1.1. Product Identifier: Dura-Coat Membrane 910 Base

1.2. Identified relevant uses of the substance or mixture and uses

Substance use/mixture

Dura-Coat polymeric compound. It is blended with Dura-Coat Membrane 910 activator to provide protection in corrosive environments.

Inappropriate uses

No information available

1.3. Safety Data Sheet Supplier Details

Company Info Company Name: Dura-Coat Industrial Inc.

Street: 5401 Haverhill Rd. Unit 106. West Palm Beach, FL 33407 USA

Phone: +1 (561) 757-5620

E-mail: dura-coat@dura-coat.net

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1.3. Emergency Phone: +1 (561) 757-5620

Section 2: Identifying Risks

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Risk Categories:

Skin corrosion/irritation: Skin irritation. 2

Respiratory or skin sensitization: Sens.Piel 1

Hazardous to the aquatic environment: Chronic Aquatic 2

Risk Statements:

It causes skin irritation.

It can cause an allergic reaction on the skin.

Toxic to aquatic life with long-lasting effects.

2.2. Label Elements

Regulation (EC) No 1272/2008

Word Signaling: Warning



Pictograms:

Hazard Statements

H315 causes skin irritation.

H317 may cause an allergic skin reaction.

H319 Causes severe eye irritation.

H411 Toxic to aquatic life with long-lasting effects.

Precautionary statements

P261 Avoid breathing mist/vapor/spray.

P264: Wash hands and skin contact areas thoroughly after handling.

P272 Contaminated work clothing should not be allowed to leave the workplace.

P273 Avoid release into the environment.

P280 Wear protective gloves/eye protection/face shield.

P302 + P352 IN THE CASE OF SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IN THE CASE OF EYES: Rinse thoroughly with water for several minutes.

Remove contact lenses if they are present and easy to make – keep rinsing.

P333 + P313 If skin irritation or rash occurs: consult a physician.

P337 + P313 If eye irritation persists: consult a doctor.

P362 Remove contaminated clothing and wash before reuse.

P391 Collect spills.

P501 Dispose of the contents/container through a local government-licensed waste management company.

2.3. Other hazards

This product is classified as hazardous as defined in the GHS OSHA Hazard Communication Standard 29CFR1910. 1200. Health and safety hazards are detailed separately for the Activator and Base ASE. The final cured material is considered non-hazardous. When machining, refer to the safety data sheet precautions for the Activator and Base. and B

Section 3: Composition/Ingredient Information

3.1 Substances

N/A

3.2 Mixes

Component	CAS Number	Composition
Bisphenol A Resin	1675-54-3	30-80%
Silicones and siloxanes	677762-90-7	1-5%
Iron oxide	1317-61-9	1-5%
3-Glycoxypropyltrimethoxysilane	2530-83-8	1-5%
Aluminum Oxide	1344-28-1	30-60%

The specified values are typical and do not represent a specification. The remaining components are proprietary, non-hazardous and/or present in quantities below the reportable limits. Exact percentage values of components are proprietary, according to 29 CFR 1910.1200(i).

Occupational exposure limits, if available, are listed in Section 8.

Section 4: First Aid Measures

4.1. Description of first aid measures

General Information

Change contaminated and saturated clothes. In the event of an accident or discomfort, consult a doctor immediately (show the instructions for use or the safety data sheet if possible).

After inhalation

In case of inspiration, take the person to fresh air and keep at rest in a comfortable position to breathe; if breathing is irregular, provide artificial respiration; If there are breathing difficulties, administer oxygen; Seek medical attention.

After skin contact

After contact with the skin, wash immediately with plenty of soap and water. Seek medical advice immediately.

Do not wash with: solvents/thinners

After eye contact

Bathe the eye with running water for at least 15 minutes, lifting the upper and lower eyelids, and then immediately consult an ophthalmologist.

After ingestion

If swallowed accidentally, rinse your mouth with plenty of water (only if the person is conscious) and seek immediate medical attention. DO NOT induce vomiting

4.2. The most important symptoms and effects, both acute and

Harmful if swallowed and inhaled; can cause severe skin burns and eye damage; Sensitizer.

4.3. Indication of any immediate medical attention and special treatment required

First aid, decontamination, treatment of symptoms.

Eyewash stations and emergency showers should be available.

Section 5: Fire suppression measures**5.1. Means of extinction****Adequate means of extinguishing**

Dry powder extinguisher. Carbon dioxide (CO₂). Alcohol-resistant foam.

Inadequate means of extinguishing

Full waterjet

5.2. Special hazards arising from the substance or mixture

Exposure to spoilage products can be harmful to health; Combustion products may include, but are not limited to: carbon monoxide, carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in the early stages of fire (especially between 400°C and 700°C); Smoke can also contain particles of the original material.

5.3. Advice for firefighters

Wear fire protective clothing and freestanding positive pressure breathing apparatus to protect against potential harmful and/or irritating fumes. Move containers from the fire zone if you do this safely. Fire control dam for subsequent disposal; Prevent runoff from entering through the drains. Cold containers exposed to fire under running water. Do not use high-volume water jets during the fire, as this can spread the area of the fire. Coordinate firefighting measures for the fire environment.

Additional information: Separately collect contaminated firefighting water. Do not allow drains or surface water to enter.

Section 6: Accidental Release Measures**6.1. Personal precautions, protective equipment and emergency procedures**

Isolated area; ensure adequate ventilation; use appropriate personal protective equipment; avoid breathing fog, vapors, aerosols; avoid contact with skin, eyes and clothing; Prevent unnecessary and unprotected personnel from entering the area involved. Local authorities should be informed if significant leaks cannot be contained.

6.2. Environmental precautions

Do not allow surface water or drains to enter. Cover the drains. Adverse effects on the environment

6.3. Containment and cleaning methods and equipment

Soak with sand, soil, diatomaceous earth or other suitable inert absorbent material (e.g. sand, diatomaceous earth, acidic or universal binding agents); Collect in containers suitable for waste disposal. Reuse uncontaminated material whenever possible. Wash the spill site with large amounts of water. Dispose of in accordance with applicable local and federal environmental control laws and regulations

6.4. Reference to other sections

See the protective measures provided for in points 7 and 8. Disposal: see section 13

Section 7: Handling and Storage

7.1. Precautions for Safe Handling

Ensure adequate ventilation. Avoid inhaling steam, ingestion, and contact with skin, eyes, and clothing. Keep containers closed when not in use. Precautions also apply to empty containers. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Personal protective equipment should be worn during maintenance or repair of mixers, reactors, or other equipment containing the material.

Fire and explosion protection tips: Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.

7.2. Safe storage conditions, including any incompatibilities

Warehouse and vessel requirements

Keep the container tightly closed in a cool, well-ventilated place. Store/store only in the original container. Store away from food and all incompatible material. Keep the container tightly closed when not in use.

Learn more about storage conditions

Avoid moisture and heat incompatibilities:

Do not store together with strong oxidizing agents.

7.3. Specific end use(s)

No information is available.

Section 8: Exposure/Personal Protection Controls

8.1 Control Parameters

Occupational Exposure Limits: None Designated

The WEEL (Environmental Exposure Level in the Work Environment) recommended by AIHA for benzyl alcohol is 10 ppm (8h-TWA) (45 mg/m³).

8.1.2 Recommended Follow-up Procedures

If this product contains ingredients with exposure limits, a personal, environmental, or biological environment may be required to determine the effectiveness of ventilation or other control measures and/or the need to wear respiratory protective equipment. Reference may be made to the European standard EN 689 for methods for the assessment of inhalation exposure to chemical agents for the determination of hazardous substances.

8.2. Exposure controls

Proper engineering controls

Provide adequate ventilation as well as local exhaust in critical locations

Protection and hygiene measures

Work in well-ventilated areas or wear adequate respiratory protection. Just wear fit, comfortable, and clean protective clothing. Avoid contact with skin, eyes, and clothing. Wash your hands and face before breaks and after work, and shower if necessary.

Eye/Face Protection

Adequate eye protection: Glasses with side protection (glasses). See OSHA 29CFR1910.133 and the European Standard EN166.

Hand protection

Nitrile or butyl gloves should be worn.

Skin protection

Wear waterproof clothing as needed to protect against contact with the product. The need for boots, apron, visor, etc., will depend on the hazards presented in the work process. See standards CFR1910.132 and CFR1910.136 for OSHA-approved standards for protective apparel and footwear.

Respiratory protection

Personal respiratory protection is usually not required. If technical escape or ventilation measures are not possible or insufficient, respiratory protection should be worn. Combined filter device (EN 14387) A-P3. Self-contained ventilator (respiratory system) (DIN EN 133).

Other Protective Equipment: The type and grade of appropriate personal protective equipment will depend on the specific operation of the job. Eyewash stations and emergency showers should be available. Inspect and replace personal protective equipment regularly: use professional care in selection, use, and care.

8.3 Environmental Exposure Controls

Take every precaution to avoid contamination of soil and waterways.

Section 9: Physical and Chemical Properties

9.1.	Basic	Physical	and	Chemical	Properties	Information
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9.1.1 General Information:

Appearance: Pasta

Color: Black

Odor Type: Slight Amine-like

Odor Threshold: No data available

9.1.2 Important health, safety and environmental information:

Boiling Point: >205°C (>401°F)

Melting Point: No data available

Inflection Point: >200°C (>392°F) (cc)

Auto inflation temperature: No data available

Decomposition Temperature: No data available

Flammability Limits (Lower/Upper): No data available

Vapor Pressure: No data available

Vapor density (Air = 1): No data available

Evaporation Rate (BuAc-1): No Data Available

Specific Gravity: 1.62

Water Solubility: Partially Soluble

pH: No data available

Viscosity: 2000-6000 cp. at 25°C

Explosive Properties: Non-Explosive

Oxidizing properties: Not determined

Molecular Formula: (Mixing)

VOC Content: <1%

9.2. Other information No information available

Section 10: Stability and Reactivity

10.1. Reactivity

There are no known hazardous reactions under normal use and storage.

10.2. Chemical stability

It does not deteriorate when used for intended uses. No known hazardous decomposition products

10.3. Possibility of dangerous reactions

Mixtures with strongly acidic materials. They can produce an exothermic reaction.

10.4. Conditions to be avoided

Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.

10.5. Incompatible Materials

Acids, oxidizing agents, epoxies, isocyanates.

10.6. Hazardous decomposition products

Does not degrade when used for intended uses

Thermal decomposition generates carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11: Toxicological Information

11.1. Information on toxicological effects

Acute oral toxicity: LD50 (rat): 690 mg/kg (ATE)

Acute skin toxicity: LD50 (rabbit): 2188 mg/kg (ATE)

Acute inhalation toxicity: LD50 (rabbit): >900 mg/m³ (salicylic acid)

Skin Corrosion/Irritation: Draize Test: Rabbit/Skin: Irritant

Severe Eye Damage/Irritation: Draize Test: Rabbit/Eye: Irritant

Skin sensitization (guinea pig): Sensitizer

Germ cell mutagenicity: Not classified as mutagenic

Carcinogenicity: Not classified as carcinogenic. It is not listed on the OSHA/NTP/IARC list.

Reproductive toxicity: Not classified as toxic to reproduction

Target Organ Specific Toxicity - Single Exposure (STOT-se): Product not classified based on available data.

Target Organ Specific Toxicity - Repeated Exposure (STOT-re): May cause liver and skeletal muscle damage from prolonged or repeated oral exposure.

NOAEL: (oral, rat): 15 mg/kg body weight per day.

Risk of aspiration: Aspiration that occurs during vomiting can cause lung damage.

Possible health effects:

Skin contact: May cause irritation, itching, redness, inflammation; may be absorbed through the skin and CNS effects of the skin; may cause allergic reaction.

Eye contact: Causes severe eye damage; fumes are irritating and can cause eye damage; contact can cause severe burns and permanent eye damage, including blindness.

Ingestion: Harmful if ingested; can cause severe and permanent damage to the mouth, throat, and stomach; tangling leads to perforation of the intestine.

Inhalation: Harmful if inhaled; may cause severe irritation of the respiratory tract; may cause CNS symptoms including headache, nausea, mental fog, blurred vision, fatigue, dizziness, and loss of coordination; prolonged excessive exposure may cause respiratory failure.

Chronic health effects:

Skin sensitizer: Once sensitized, a severe allergic reaction can occur when exposed to extremely low levels. After repeated oral exposure at high doses, the substance causes adverse effects on the liver and kidneys.

Additional data:

RTECS No. GV5020833 (PACM)

RTECS No. DN3150000 (Benzylic Alcohol)

RTECS No. VO0525000 (Salicylic Acid)

Section 12: Ecological Information

12.1. Toxicity

12.1.1 Acute/long-term toxicity to fish

LC50 (freshwater fish) (96 hours): 10 mg/l (ATE)

12.1.2 Acute/long-term toxicity to aquatic invertebrates

EC50 (Daphnia magna) (48 hours): 10 mg/l (ATE)

12.1.3 Acute/prolonged toxicity to aquatic plants

EC50 (algae)(72 hours): 16 mg/l (ATE)

12.1.4 Toxicity to bacteria, soil-dwelling organisms and terrestrial plants

No data available

12.1.5 Chronic Toxicity to Aquatic Organisms

Long-lasting adverse effects on aquatic organisms.

12.1.6 General effect

Harmful to aquatic life with long-lasting effects.

12.2 Persistence and degradability

It is not easily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Ground mobility

No data available; Do not allow the product to enter the ground/subfloor.

12.5 Results of the evaluation of PBT and vPvB (Reg. EC 453/2010)

Product not classified as persistent, bioaccumulative and toxic

Product not classified as very persistent or very bioaccumulative

The substances present in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

12.6 German WGK Rating

WGK No. 1 (Self-Assessment)

12.7 Other Adverse Effects

Neutralization may be required prior to dumping to wastewater treatment plants.

Section 13: Disposal Considerations

13.1. Waste treatment methods

Disposal advice

Dispose of waste in accordance with applicable law. Do not dump on land, sewers, or waterways. Incinerate or otherwise dispose of in compliance with all applicable federal, state, and local environmental control laws and regulations. Characterization of waste in accordance with RCRA guidelines and compliance with applicable laws is the sole responsibility of the waste generator.

Contaminated packaging

Uncontaminated packaging can be recycled. Dispose of waste in accordance with applicable law.

Section 14: Transportation Information

14.1 Shipment Description

Non-hazardous material

Unregulated

Correct description of DOT submission: Not regulated

IMDG: Not Regulated

IATA: Not regulated

Section 15: Regulatory Information

15.1. Safety, health and environmental standards/legislation specific to the substance or mixture

Sara Title III Section 311/312 (40CFR370): Acute toxicity, skin corrosion or irritation, severe eye injury, or eye irritation.

SARA Title III Section 313 (40CFR372): Notifiable Components

CERCLA Status (40CFR302): No Reportable Components (Release of hazardous substance into the environment in an amount equal to or greater than its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)

RCRA Status (40CFR261): Not Listed

OSHA/NTP/IARC Carcinogen Status: Not Listed

TSCA Inventory Status: Reported/Included

DSL Status in Canada: Reported/Included

WHMIS Status in Canada: D2B, E

Chemicals known to the state of California to cause cancer or reproductive toxicity: None of these are known to be present in the product at levels that require warning.

Annex REACH XIV (SVHC)

No components listed

REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles)

No components listed

REACH Status (EC 1907/2006): This material has been registered, pre-registered, or is exempt from registration under the Registration, Evaluation, and Authorization of Chemicals.

15.2. Chemical safety assessment

Not available

Section 16: Other Information

HMIS Ratings:

Health: 2

Flammability: 1

Reactivity: 0

(The selection of personal protective equipment is best assigned by the user after the risk is realized evaluation of the product, as it must be used in the specific work process.)



National Chemical Stocks - All components of this product are listed in the following chemical stocks:

TSCA (United States)

DSL (Canada)

EINECS (Europe)

ENCS (Japan)

ECL (Korea)

AICS (Australia)

PICCS (Philippines)

IECSC (China)

NZIoC (New Zealand)

Abbreviations and acronyms:

ADR: Accord European sur le transport des marchandises dangerousness par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

ACGIH American Conference of Governmental Industrial Hygienists

AICS Australian Chemical Inventory

American Industrial Hygiene Association

Acute Toxicity Estimate of ATE

RID: Conernat internacional de R glement le transport des marchandises dangerousness par chemin de fer

(Regulations on the International Carriage of Dangerous Goods by Rail)

IMDG: International Maritime Dangerous Goods Code

Recommendations of the BfR Bundesinstitut f r Risikobewertung for food contact materials

Bioconcentration Factor BCF

CAS: Chemical Service Summary (division of the American Chemical Society)

CERCLA Comprehensive Law on Environmental Response, Offsetting, and Environmental Liability

CLP: Regulation on Classification, Labeling and Packaging of Substances and Mixtures
DOT Department of Transportation
DNEL: Level with no derived effect
DSL Household Substances List
European Inventory of Existing Chemicals EINECS
List of Existing ECL Chemicals (Korea)
EC50: Effective concentration, 50%
ENCS Inventory of Existing and New Chemicals (Japan)
EN 689 Work Environments – Guidance for Assessment of Inhalation Exposure
Chemical agents for comparison with limit values and measurement strategy
ERG Emergency Response Guide
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS Hazardous Materials Information System
IARC International Agency for Research on Cancer
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization
ICAO-IT: Technical Instructions of the "International Civil Aviation Organization" (ICAO)
IDLH immediately dangerous to life and health
IMDG International Dangerous Sea Goods
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50%
MAK Maximale Arbeitsplatz Konzentration
NOAEL No observable level of adverse effect
NTP National Toxicology Program
OEL Occupational Exposure Limit
OSHA Occupational Safety and Health Administration
Persistent, bioaccumulative and toxic PBT
PNEC: Concentration with no expected effect
vPvB: very persistent and very bioaccumulative
PEL Allowable Exposure Limit
Philippine PICCS Inventory of Commercial Chemicals
PNEC predicts concentration without effect
Registration, Evaluation and Authorization of REACH Chemicals
RID International Transport of Dangerous Goods by Rail
SARA Superfund Amendments and Reauthorization Act
STEL Short-Term Exposure Limit
SVHC Substance of Very High Concern
TLV threshold threshold value
TSCA Toxic Substances Control Act
TWA Time-Weighted Average
VOC Volatile Organic Compound
WEEL's Workplace Environmental Exposure Level
WGK Wassergefährdungsklasse (Water Hazard Class)
WHMIS Workplace Hazardous Materials Identification System

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Dura-Coat Industrial, Inc.
5401 Haverhill Rd. Unit 106. West Palm Beach, FL 33407 USA
Phone: (561) 757 – 5620
E-mail: dura-coat@dura-coat.net
Website: www.dura-coat.net

Issue date: 27/10/2023