

Safety Data Sheet (Complies with OSHA HCS)

Section 1: Identification

Product identifier	DX-5400 Series Part B Coating and Lining (All Colors)
Other means of identification	DX-5400
Recommended use	Not available
Recommended restrictions	None known
Manufacturer/Importer/Supplier/Distributor information	
Company Name:	Dynesic Technologies, Inc. 15230 Surveyor Blvd., Addison, TX 75001 Phone: 972-692-0962
After hours telephone number	Phone: 972-692-0962
Website	www.dynesic.com
Email	sphillips@dynesic.com
Emergency 24 hour telephone	CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887
Operation hours information	7:00 a.m. to 7:00 p.m.

Section 2: Hazard(s) Identification

Physical hazards	Not classified	
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Specific target organ toxicity, single exposure * respiratory tract irritation	Category 3
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified	
OSHA defined hazards	Not classified	
Label elements		



Signal word	Danger
Hazard statement	Causes severe skin burns and eye damage. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/. Specific treatment see Section 4 of this SDS. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell.

Storage Store locked up. Store in a well-ventilated place. Keep container tightly closed.

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

Section 3: Composition/Information on Ingredients

Mixtures

Chemical name/Common name and synonyms	CAS number	%
4,4'-METHYLENEBIS(CYCLOHEXYLAMINE)	1761-71-3	45-55
BENZYL ALCOHOL	100-51-6	25-35
[(DIMETHYLAMINO)METHYL]PHENOL	25338-55-0	5-15
1,2-DIAMINOCYCLOHEXANE	694-83-7	5-15
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	1-10
BENZENE, HYDROXY-	108-95-2	1 - < 3
Other components below reportable levels		30 - < 4

Section 4: First Aid Measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. For minor skin contact, avoid spreading material on unaffected skin. Take off contaminated clothing and wash before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5: Fire-Fighting Measures**Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Alcohol foam. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Wear suitable protective equipment. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage

Specific methods

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

General fire hazards

No unusual fire or explosion hazards noted.

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Extinguish all flames in the vicinity. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage**Precautions for safe handling**

Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. When using do not eat or drink. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Use personal protective equipment as required. Do not get this material on clothing. Observe good industrial hygiene practices. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedingstuffs.

Section 8: Exposure Controls/Personal Protection**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
BENZENE, HYDROXY- (CAS 108-95-2)	PEL	19 mg/m ³ 5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
BENZENE, HYDROXY- (CAS 108-95-2)	TWA	5 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
BENZENE, HYDROXY- (CAS 108-95-2)	Ceiling	60 mg/m ³
		15.6 ppm
	TWA	19 mg/m 3 5 ppm

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44.2 mg/m ³ 10 ppm

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen
BENZENE, HYDROXY- (CAS 108-95-2)		Phenol with hydrolysis	Creatinine in urine

* For sampling details, please see the source document.

Exposure guidelines**US - California OELs: Skin designation**

BENZENE, HYDROXY- (CAS 108-95-2) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

BENZENE, HYDROXY- (CAS 108-95-2) Skin designation applies.

US - Tennessee OELs: Skin designation

BENZENE, HYDROXY- (CAS 108-95-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

BENZENE, HYDROXY- (CAS 108-95-2) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

BENZENE, HYDROXY- (CAS 108-95-2) Can be absorbed through the skin. US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) BENZENE, HYDROXY- (CAS 108-95-2) Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Chemical goggles and face shield are recommended.

Skin protection Hand protection

Wear appropriate chemical resistant gloves.

Other

Skin protection should include disposable chemical resistant coveralls with hoods. Hand protection should include appropriate chemical resistant disposable gloves, such as nitrile rubber.

Respiratory protection

If in spray application, respiratory protection should include at a minimum a full face air purifying respirator (APR) with combination particulate (P100) and organic vapor (OV) cartridges. A full-face APR has an assigned protection factor (APF) of 50, as designated by OSHA. As a substitute, a PAPR with a loose-fitting hood could be used as respiratory protection.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink.

Section 9: Physical and Chemical Properties

Appearance**Physical state**

Liquid

Form

Liquid

Color

Golden to Light Amber

Odor

Ammoniacal. Amine-like

Odor threshold

Not available

pH

7 estimated

Melting point/freezing point

4.64 °F (-15.2 °C) estimated

Initial boiling point and boiling range

359.15 °F (181.75 °C) estimated

Flash point

> 200.0 °F (> 93.3 °C) estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not available

Upper/lower flammability or explosive limits**Flammability limit - lower (%)**

3 % estimated

Flammability limit - upper (%)

10 % estimated

Explosive limit - lower (%)

Not available

Explosive limit - upper (%)

Not available

Vapor pressure

Not available

Vapor density

Not available

Relative density

Not available

Solubility(ies) Solubility (water)

Not available

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

816.8 °F (436 °C) estimated

Decomposition temperature

Not available

Viscosity

Not available

Other information**Density**

8.33 lb/gal estimated

Specific gravity

1

Section 10: Stability and Reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable

Possibility of hazardous reactions

Hazardous polymerization can occur with elevated temperatures.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Acids. Alkaline metals. Amines. Peroxides. Fluorine. Chlorine. Phenols. Strong acids, alkalis and oxidizing agents.

Hazardous decomposition products

Toxic gas. If product is burned hazardous gases such as oxides of carbon and nitrogen and various hydrocarbons may be produced. Upon combustion, oxides of chlorine may be released.

Section 11: Toxicological Information

Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact Causes severe skin burns and eye damage.

Eye contact Causes serious eye damage.

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes and mucous membranes.

Symptoms related to the toxicological effects

acute toxicity

Components Species Test Results

4,4'-METHYLENEBIS(CYCLOHEXYLAMINE) (CAS 1761-71-3)

Acute

Oral LD50 Rat 380 mg/kg

BENZENE, HYDROXY- (CAS 108-95-2)

Acute

Dermal LD50 Rat 669 mg/kg

Oral LD50 Rat 317 mg/kg

BENZYL ALCOHOL (CAS 100-51-6)

Acute

Dermal LD50 Rabbit 2000 mg/kg

Oral LD50 Rat 1230 - 3100 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Irritating and may cause redness and pain.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization

Corrosive to skin and eyes. Causes severe skin burns

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

BENZENE, HYDROXY- (CAS 108-95-2) - 3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens Not listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

May cause irritation to the respiratory system.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available

Chronic effects Prolonged inhalation may be harmful.

Section 12: Ecological Information

Ecotoxicity

Harmful to aquatic life. Components of this product are hazardous to aquatic life. Accumulation in aquatic organisms is expected.

Product	Species	Test Results
DX-5400 Part B Coating and Lining (all colors)		

Aquatic

Crustacea EC50	Daphnia	2371.9158 mg/l, 48 hours estimated
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Components	Species	Test Results
BENZENE, HYDROXY- (CAS 108-95-2)		

Aquatic

Crustacea EC50	Water flea (Daphnia obtusa)	4.7 - 6.4 mg/l, 48 hours
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Fish LC50	Asiatic knifefish (Notopterus notopterus)	8 - 8.25 mg/l, 96 hours
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BENZYL ALCOHOL (CAS 100-51-6)

Aquatic

Fish LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours
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Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

BENZENE, HYDROXY-	1.46
BENZYL ALCOHOL	1.1

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal Considerations

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

Section 14: Transport Information

DOT UN number	UN2735
UN proper shipping name	Amine, Liquid, Corrosive, N.O.S. ([3-(aminoethyl)phenyl]methanamine)
Transport hazard class(es)	

Transport hazard class(es)**Class** 8**Subsidiary risk** -**Packing group** III**Environmental hazards** No**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**IMDG****UN number** UN2735 UN**proper shipping name** Amine, Liquid, Corrosive, N.O.S. ([3-(aminoethyl)phenyl]methanamine)**Class** 8**Subsidiary risk** -**Packing group** III**Environmental hazards** No**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**UN number** UN2735 UN**proper shipping name** Amine, Liquid, Corrosive, N.O.S. ([3-(aminoethyl)phenyl]methanamine)**Class** 8**Subsidiary risk** -**Packing group** III**Marine pollutant** No**EmS** Not available**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not available

DOT**IATA; IMDG****Section 15: Regulatory Information****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

BENZENE, HYDROXY- (CAS 108-95-2) Listed

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity BENZENE, HYDROXY- (CAS 108-95-2) 1000 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name BENZENE, HYDROXY-
CAS number 108-95-2

Reportable quantity (pounds) 1000
Threshold planning quantity, lower value (pounds) 500
Threshold planning quantity, upper value (pounds) 10000
SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt
BENZENE, HYDROXY-	108-95-2	1.74

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

BENZENE, HYDROXY- (CAS 108-95-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

Safe Drinking Water Act

Not regulated

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal.

Code Regs, tit. 22, 69502.3, subd. (a))

BENZENE, HYDROXY- (CAS 108-95-2)

International Inventories

Country(s) or region/Inventory name	On inventory (yes/no)*
Australia Australian Inventory of Chemical Substances (AICS)	Yes
Canada Domestic Substances List (DSL)	Yes
Canada Non-Domestic Substances List (NDSL)	No
China Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe European Inventory of Existing Commercial Chemical Substances	Yes
Europe European List of Notified Chemical Substances (ELINCS)	No
Japan Inventory of Existing and New Chemical Substances (ENCS)	No
Korea Existing Chemicals List (ECL)	Yes
New Zealand New Zealand Inventory	Yes
Philippines Philippine Inventory of Chemicals and Chemical Substances	Yes
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16: Other Information

Issue date 04-07-2015
Revision date 11-20-2017
Version # 03
NFPA ratings Health: 3
 Flammability: 0
 Instability: 0

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.

