



Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

DriTac Flooring Products, LLC

60 Webro Road
Clifton, NJ 07012
UNITED STATES

24 HOUR EMERGENCY RESPONSE NUMBER:

800-424-9300

For product information:

973-614-9000

Product Name: MCS 7000 Component A

Effective: 05/27/2015

Use of the substance/preparation: Potting and encapsulating resin.

2. HAZARDS IDENTIFICATION

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture: SKIN CORROSION / IRRITATION – Category 2
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 2A
SKIN SENSITIZATION – Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
(Respiratory tract irritation) – Category 3

GHS label elements Hazard pictograms:



Signal word: Warning

Hazard statements: Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

Precautionary statements: Wear protective gloves: butyl rubber, Ethyl vinyl alcohol laminate (EVAL), nitrile rubber, neoprene rubber. Wear eye and face protection. Wear protective clothing. Avoid breathing vapor. Avoid release to the environment. Wash hands thoroughly after handling. Collect spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

	Wt%	CAS
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, Common Name: Bisphenol A based Epoxy resin	>99	25085-99-8
Glycidoxypropyl trimethoxysilane	<1	2530-83-8
C.I. Solvent Blue	<0.1	74499-36-8

4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation

Move person to fresh air; if effects occur, consult a physician.

Skin Contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse. Remove residues with soap and water. Call a physician if irritation persists.

Eye Contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion

The decision of whether to induce vomiting or not should be made by a physician.

Note to Physician

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Corticosteroid cream has been very effective for treating skin irritation.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Carbon dioxide. Dry chemical fire extinguishers. Foam.

Hazardous Combustion Products

Under conditions of incomplete combustion or pyrolysis, phenolics and carbon oxides may be evolved. The thermal decomposition products therefore should be treated as potentially hazardous substances and appropriate precautions should be taken.

Protection of Firefighters

Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Specific Fire or Explosion Hazards

Non-flammable product.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear adequate personal protective equipment, see Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.

Environmental Precautions

Contain liquid to prevent contamination of soil, surface water or ground water. Flushings and wash waters must be contained and prevented from entering into soil, waterways and ground water.

Large spills: Contain with dike.

Methods of Cleaning Up

Cover and soak up with a suitable absorbent material, such as: Sand. Collect in suitable and properly labeled containers. Dispose of according to applicable regulations, see Section 13, DISPOSAL CONSIDERATIONS. Residual can be removed with solvent. Solvents are not recommended for cleanup unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent SDS for handling information and exposure guidelines. Residual product may be removed using steam or hot soapy water.

7. HANDLING AND STORAGE

Practice care and caution to avoid skin and eye contact. Avoid breathing vapours of heated material.

- Storage Temperature and Shelf-Life
Store at 25 deg. C. Shelf life is 12 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
None established.

Engineering Controls
Good general ventilation should be sufficient for most conditions.

Personal Protective Equipment

- Respiratory Protection
No respiratory protection should be needed.

- Skin Protection
For brief contact, no precautions other than clean body-covering clothing should be needed.

The following should be effective protective clothing materials: Nitrile rubber. Neoprene. or Butyl.
Remove contaminated clothing no later than at the end of the work period and launder before reuse.

- Eye/Face Protection
Use safety glasses. Where contact with this material is likely, chemical goggles or face shield with safety glasses are recommended because eye contact may cause discomfort even though it is unlikely to cause injury.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Vapor density: Not determined

Odor: Slight epoxy odor

Relative density: Not determined

Odor threshold: Not available

Solubility(ies): Insoluble in water

pH: Not available

Partition coefficient: n-octanol/water;
Not determined

Melting point/freezing point: Not determined

Auto-ignition temperature: Not determined

Flash point: > 264° C

Decomposition temperature: Not determined

Evaporation rate: Not determined

Viscosity: 9000-15000 cps 25° C @400 rpm

Flammability (Solid/gas): Not applicable

Specific gravity: 1.16

Upper/lower flammability: Not determined

VOC content: 0.0 lb/gal

Vapor pressure: <0.0000001 mbar @ 21° C

Boiling point: >320° C

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal storage conditions.

Conditions to Avoid

Excessive heating over long periods of time degrades the product (causing discoloration).

Materials to Avoid

Acids. Amines. Bases. Oxidising agents.

Hazardous Polymerization

Hazardous polymerization will not occur by itself, but masses of more than 0.5 Kg of product, plus an aliphatic amine will cause irreversible polymerization with considerable heat build up.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- Ingestion

The oral LD50 for rats is expected to be >5000 mg/kg. Single dose oral toxicity is believed to be low. Harmful effects not anticipated from swallowing small amounts.

- Skin Contact

Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD50 for skin absorption in rabbits is believed to be 20,000 mg/kg.

- Inhalation

Vapours are unlikely due to physical properties.

Irritation

- Skin

Repeated contact may cause skin irritation with local redness.

- Eyes

May cause slight temporary eye irritation. Corneal injury is unlikely.

Sensitization

Skin contact has caused allergic skin reactions in humans.

Carcinogenicity

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEbPA). Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEbPA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEbPA is not classified as a carcinogen.

12. ECOLOGICAL INFORMATION

Mobility and Bioaccumulation Potential

Bioconcentration potential is moderate (BCF between 100 and 3000 or log Pow between 3 and 5). Potential for mobility in soil is high (Koc between 50 and 150). Material is expected to cause long-term adverse effects in the aquatic environment (log Pow greater than 3.0).

Degradation

Based on the stringent OECD test guidelines, this material can not be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Aquatic Toxicity

Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS

Disposal

The recommended procedure for disposing of waste products is burning under carefully controlled conditions. Burn in an adequate incinerator. Do not dump into any sewers, on the ground, or into any body of water.

Wastes or Residues

Customers are advised to check their local legislation governing the disposal of chemical waste.

Contaminated Packaging

Empty containers must be disposed of as hazardous waste unless all remaining product adhering to the container walls has been removed. Hazard warning labels can then be removed from the containers walls and the container sent for recycling or disposal in accordance with local regulations. Washings must be disposed of safely and in accordance with local regulations. If the container is reconditioned, the reconditioning company should be made aware of the nature of the original contents.

14. TRANSPORT INFORMATION

DOT:

Proper shipping name: Not Regulated

Label:

Classification Code:

Packing Group:

UN Number:

IMDG:

Proper shipping name: Environmentally Hazardous Substance, liquid, n.o.s.(Epoxy Resins)

IMO/IMDG Hazard Class: 9

UN Number: 3082

Label: Misc & Marine Pollutant

Packing Group: III
Marine Pollutant: Yes
EMS: F-A, S-F

IATA/ICAO:
Proper shipping name: Environmentally Hazardous Substance, liquid, n.o.s.(Epoxy Resins)
IATA/ICAO Hazard Class: 9
UN Number: 3082
Label : Misc
Sub Class: None
Packing Group: III
Pack Instr. Passenger: 964
Pack Instr. Cargo: 964

15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS: The concentration shown in this document are maximum levels (weight %) to be used for regulations.

TOXIC SUBSTANCES CONTROL ACT(TSCA):

The components of this product are contained on the chemical substance inventory list.

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

IARC Not carcinogenic

FEDERAL EPA:

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, and LIABILITY ACT of 1980 (CERCLA):

Requires notification of the national Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4.

Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight	RQ
NONE			

SUPERFUND AMENDMENTS and REAUTHORIZATION ACT OF 1986 (SARA) TITLE III:

Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product as a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight	RQ
NONE			

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA HAZARD CLASSIFICATIONS:

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
Yes	no	no	no	no

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDSs that are distributed for

this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight	RQ
NONE			

California Proposition 65. Does not contain any listed chemical to the best of our knowledge.

Canada DSL On the inventory WHMIS Code: D2B

Included on Inventory	
EUROPE	EINECS
AUSTRALIA	AICS
JAPAN	MIT/ENCS
SOUTH KOREA	ECL
CHINA	SEPA
PHILPPINES	PICC

16. OTHER INFORMATION

EC Classification and User Label Information

Hazard Symbol: Xi – Irritant
N – Dangerous for the Environment

Risk Phrases: Irritating to eyes and skin (R36/38). May cause sensitization by skin contact (R43). Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53). Possible risks of irreversible effects (R40). Irritating to eyes, respiratory system and skin (R36/37/38).

Safety Phrases: Avoid contact with skin (S24).
After contact with skin, wash immediately with plenty of water and soap (S28).
Wear suitable gloves and eye/face protection (S37/39).
Avoid release to the environment. Refer to special instructions/safety data sheet (S61).

Chemical name: Reaction product: Bisphenol A-(epichlorohydrin); epoxy resin (number average molecular weight <= 700).

HAZARD RATING:		HMIS
4=Extreme	HEALTH	2
3 = High	FIRE	1
2 = Moderate	REACTIVITY	0
1 = Slight	PROTECTION	X
0 = Insignificant		

The information herein is given in good faith, but no warranty expressed or implied is made. DriTac Flooring Products urges users of this product to evaluate its suitability and compliance with local regulations as DriTac Flooring Products cannot foresee the final use of the product, nor the final location of usage.



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24 HOUR EMERGENCY RESPONSE NUMBER:

800-424-9300

For product information:

973-614-9000

Product Name: MCS 7000 Component B

Revision Date: 05/17/2015

Use of the substance/preparation Potting and Encapsulating compound.

2. HAZARDS IDENTIFICATION

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture: SKIN CORROSION / IRRITATION – Category 1B
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 1
ACUTE TOXICITY – ORAL – Category 4
AQUATIC HAZARD (ACUTE) – Category 3
AQUATIC HAZARD (LONG TERM) – Category 2

GHS label elements Hazard pictograms:



Signal word: Danger

Hazard statements: Causes severe skin burns and eye damage.
Toxic to aquatic life with long lasting effects.

Precautionary statements: Wear gloves: Butyl rubber, nitrile rubber, neoprene rubber. Wear eye and face protection. Wear protective clothing. Avoid release to the environment. Wash hands thoroughly after handling. Collect spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

	Wt%	CAS
Benzyl alcohol	32-37	100-51-6
Polyamide	19-21	Trade Secret
Cycloaliphatic amine	11-14	Trade Secret
Methylene, polymer with benzenamine hydrogenated	11-14	135108-88-2
Isophoronediamine	9-11	2855-13-2

Nonyl phenol	6-9	84852-15-3
Triethylenetetramine	1-3	112-24-3

4. FIRST-AID MEASURES

Inhalation

Move person to fresh air; if effects occur, consult a physician.

Skin Contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse. Remove residues with soap and water. Call a physician if irritation persists.

Eye Contact

Flush eyes thoroughly with water for 15 minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion

Do not induce vomiting. Give one glass of water unless victim is drowsy, convulsing, or unconscious. See physician immediately.

Note to Physician

Application of cortiosteroid cream has been effective in treating skin irritation.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Water, carbon dioxide, foam or dry chemical.

Hazardous Combustion Products

Carbon dioxide, carbon monoxide and nitrogen oxides.

Protection of Firefighters

Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Specific Fire or Explosion Hazards

None.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear adequate personal protective equipment, see Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.

Environmental Precautions

Contain liquid to prevent contamination of soil, surface water or ground water. Flushings and wash waters must be contained and prevented from entering into soil, waterways and ground water.

Large spills: Contain with dike.

Methods of Cleaning Up

Cover and soak up with a suitable absorbent material, such as: Sand. Collect in suitable and properly labeled containers. Dispose of according to applicable regulations, see Section 13,

DISPOSAL CONSIDERATIONS. Residual can be removed with solvent. Solvents are not recommended for cleanup unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent SDS for handling information and exposure guidelines. Residual product may be removed using steam or hot soapy water.

7. HANDLING AND STORAGE

Avoid contact with eyes, skin or clothing. Do not breathe vapors. Keep away from acids, oxidizers and heat. Keep away from food or drink. Keep dry and store in closed containers.

Storage Temperature and Shelf Life
Store at 25 degrees C. Shelf life is 12 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
NA

Engineering Controls
Local exhaust.

Personal Protective Equipment

- Respiratory Protection
Organic vapor respirator, if ventilation is inadequate.
- Skin Protection
The following should be effective protective clothing materials: Nitrile rubber. Neoprene. Polyvinyl chloride ("PVC" or "vinyl").
Wear ethyl vinyl alcohol laminate (EVAL) or butyl rubber impervious gloves when prolonged or frequently repeated contact could occur. Remove contaminated clothing no later than at the end of the work period and launder before reuse.
- Eye/Face Protection
Use safety glasses. Where contact with this material is likely, chemical goggles are recommended because eye contact may cause discomfort even though it is unlikely to cause injury.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Vapor density: Not determined

Odor: Slight Amine odor

Relative density: Not determined

Odor threshold: Not available

Solubility(ies): Insoluble in water

pH: ≈ 9-10

Partition coefficient: n-octanol/water;
Not determined

Melting point/freezing point: Not determined

Auto-ignition temperature: Not determined

Flash point: > 205° F

Decomposition temperature: Not determined

Evaporation rate: Not determined

Viscosity: 1500-2500 cps 25° C @200 rpm

Flammability (Solid/gas): Not applicable

Specific gravity: 1.01

Upper/lower flammability: Not determined

VOC content: Not determined

Vapor pressure: <10 mm of Hg @ 20 C

Boiling point: >351° F

10. STABILITY AND REACTIVITY

Chemical Stability
Stable.

Conditions to Avoid
Excessive heat.

Materials to Avoid
Can react vigorously with strong oxidizing agents, strong mineral acid, and strong mineral and organic bases, especially primary and secondary aliphatic amines

Hazardous Polymerization
Hazardous polymerization will not occur by itself, but masses of more than 0.5 Kg of product, plus an epoxy resin will cause irreversible polymerization with considerable heat build up.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

- Ingestion: Not likely to be a relevant route of exposure.
- Skin Contact: Corrosive to the skin. May be toxic if absorbed through skin. May cause skin sensitization.
- Inhalation: Vapors/mists may be corrosive to upper respiratory tract. Repeated or prolonged exposure can result in lung damage.
- Eyes: Corrosive to the eyes and may cause severe damage including blindness. Vapors may be irritating.
- Aggravated Medical Condition: Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

Carcinogenicity
None.

12. ECOLOGICAL INFORMATION

Mobility and Bioaccumulation Potential
Not determined.

Degradation
Not determined.

Aquatic Toxicity
Not determined.

13. DISPOSAL CONSIDERATIONS

Disposal

The recommended procedure for disposing of waste products is burning under carefully controlled conditions. Burn in an adequate incinerator. Do not dump into any sewers, on the ground, or into any body of water.

Wastes or Residues

Customers are advised to check their local legislation governing the disposal of hazardous chemical waste.

Contaminated Packaging

Empty containers must be disposed of as hazardous waste unless all remaining product adhering to the container walls has been removed. Hazard warning labels can then be removed from the containers walls and the container sent for recycling or disposal in accordance with local regulations. Washings must be disposed of safely and in accordance with local regulations. If the container is reconditioned, the reconditioning company should be made aware of the nature of the original contents.

14. TRANSPORT INFORMATION

DOT:

Proper shipping name: UN1760 Corrosive Liquids, N.O.S. (Isophoronediamine, Nonyl phenol), 8, PG III
Class: 8
Packing Group: PG III
UN Number: 1760

IMDG:

Proper shipping name: UN1760 Corrosive Liquids, N.O.S. (Isophoronediamine, Nonyl phenol), 8, PG III
Class: 8
Packing Group: PG III
UN Number: 1760
Emergency Schedule: F-A, S-B:

IATA:

Proper shipping name: UN1760 Corrosive Liquids, N.O.S. (Isophoronediamine, Nonyl phenol), 8, PG III
Class: 8
Packing Group: PG III
UN Number: 1760
Packaging Instructions: Passenger 852, Cargo 856

15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS: The concentration shown in this document are maximum levels (weight %) to be used for regulations.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The components of this product are contained on the chemical substance inventory list.

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

IARC Not carcinogenic

FEDERAL EPA:

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, and LIABILITY ACT of 1980 (CERCLA):

Requires notification of the national Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4.

Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight	RQ
None			

SUPERFUND AMENDMENTS and REAUTHORIZATION ACT OF 1986 (SARA) TITLE III:

Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product as a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight	RQ
None			

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

EPA HAZARD CLASSIFICATIONS:

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
Yes	no	no	no	no

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight	RQ
NONE			

California Proposition 65. **WARNING:** This product does not contain any chemical known to the State of California to cause cancer.

Canada DSL On the inventory WHMIS Code: Class E: Corrosive

Included on Inventory	
EUROPE	EINECS
AUSTRALIA	AICS
JAPAN	MIT/ENCS
SOUTH KOREA	ECL
CHINA	SEPA
PHILPPINES	PICC

16. OTHER INFORMATION

HAZARD RATING:

HMIS

4=Extreme	HEALTH	3
3 = High	FIRE	1
2 = Moderate	REACTIVITY	0
1 = Slight	PROTECTION	X
0 = Insignificant		

EC Classification and User Label Information

Hazard Symbol: Xi – Irritant

Risk Phrases: Harmful by inhalation and in contact with skin (R20/21), Toxic by inhalation and in contact with skin (23/24), Irritating to eyes and skin (R36/38). May cause sensitization by inhalation and skin contact (R42/43).

Safety Phrases: Avoid contact with skin (S24).
After contact with skin, wash immediately with plenty of water and soap (S28).
Wear suitable gloves and eye/face protection (S37/39).
Avoid release to the environment.

The information herein is given in good faith, but no warranty expressed or implied is made. DriTac Flooring Products urges users of this product to evaluate its suitability and compliance with local regulations as DriTac Flooring Products cannot foresee the final use of the product, nor the final location of usage.