



Safety Data Sheet

***** Section 1 - Product and Company Identification *****

Material Name: CERAM-KOTE Marine AF Part B

Manufacturer Information

CERAM-KOTE COATINGS INCORPORATED
1800 Industrial Drive
Big Spring, TX 79720

Phone: 432-263-8497

Emergency # ChemTel: +1 (800) 255-3924 Contract #: MIS1807449
Outside the USA: 1-813-248-0585 For Australia: 1-300-954-5883
For Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086, Mexico: 800-099-0731

***** Section 2 - Hazards Identification *****

GHS Classification:

- Acute Toxicity Oral - Category 4
- Acute Toxicity Inhalation - Category 4
- Skin Corrosion/Irritation - Category 1B
- Skin Sensitization - Category 1
- Toxic to Reproduction - Category 2
- Specific Target Organ Toxicity (Single Exposure) - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Danger

Hazard Statements

- Harmful if swallowed.
- Harmful if inhaled.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- Suspected of damaging fertility or the unborn child.
- May cause respiratory irritation.

Precautionary Statements

Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe mist/vapours/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/eye protection/face protection.

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Response

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do not induce vomiting.

Storage

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

Store locked up.

Disposal

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

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
100-51-6	Benzyl alcohol	13-30
2855-13-2	Isophorone diamine	7-13
1477-55-0	m-Xylene- α,α' -diamine	3-7
80-05-7	Bisphenol A	3-7
109-55-7	N,N-Dimethyl-1,3-propanediamine	1-3
90-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	1-3
69-72-7	Salicylic acid	1-3

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Check for and remove any contact lenses. Immediately flush with running water for at least 15 minutes. Seek immediate medical attention.

First Aid: Skin

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes and launder before re-wearing. Seek immediate medical attention.

First Aid: Ingestion

Rinse mouth with water. DO NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

First Aid: Inhalation

Remove individual to fresh air. If breathing is difficult, administer oxygen and obtain medical aid.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Combustible liquid. Keep away from heat and ignition sources.

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Hazardous Combustion Products

Oxides of carbon and nitrogen.

Extinguishing Media

Use foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media

Do not use water jet.

Fire Fighting Equipment/Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

*** Section 6 - Accidental Release Measures ***

Recovery and Neutralization

Stop the flow of material, if this is without risk.

Materials and Methods for Clean-Up

Prevent material from entering sewers or waterways. Remove all ignition sources. Ventilate area. Absorb with inert materials (e.g. vermiculite or sand) and place in a closed container for proper disposal.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions

Avoid release to the environment.

Prevention of Secondary Hazards

None

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid contact with skin and eyes. Wash thoroughly after handling. Do not breathe vapors or mists of this product. Use with adequate ventilation. Ground/bond container and receiving equipment. Use non-sparking tools.

Storage Procedures

Keep away from heat and ignition sources. Store in the original container protected from direct sunlight in a dry, cool and well-ventilated area. Store between 2-40°C (35.6-104°F).

Incompatibilities

Strong acids, bases and oxidizing agents.

*** Section 8 - Exposure Controls / Personal Protection ***

Substance Exposure Limits

Bisphenol A (80-05-7)		
EU	IOELV TWA (mg/m ³)	10 mg/m ³
Austria	MAK (mg/m ³)	5 mg/m ³
Austria	MAK Short time value (mg/m ³)	5 mg/m ³
Austria	OEL - Ceilings (mg/m ³)	5 mg/m ³
Belgium	Limit value (mg/m ³)	10 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	10 mg/m ³
Cyprus	OEL TWA (mg/m ³)	10 mg/m ³

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Bisphenol A (80-05-7)		
Czech Republic	Expoziční limity (PEL) (mg/m ³)	2 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	3 mg/m ³
Estonia	OEL TWA (mg/m ³)	10 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
France	VME (mg/m ³)	10 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	5 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA (mg/m ³)	10 mg/m ³
Greece	OEL TWA (mg/m ³)	10 mg/m ³
Hungary	AK-érték	10 mg/m ³
Lithuania	IPRV (mg/m ³)	10 mg/m ³
Luxembourg	OEL TWA (mg/m ³)	10 mg/m ³
Malta	OEL TWA (mg/m ³)	10 mg/m ³
The Netherlands	MAC TGG 8H (mg/m ³)	10 mg/m ³ (respirable)
Poland	NDS (mg/m ³)	5 mg/m ³
Poland	NDSCh (mg/m ³)	10 mg/m ³
Romania	OEL TWA (mg/m ³)	10 mg/m ³
Slovenia	OEL TWA (mg/m ³)	5 mg/m ³
Slovenia	OEL STEL (mg/m ³)	5 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (indicative limit value)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	10 mg/m ³ (inhalable)
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	20 mg/m ³ (inhalable)
Switzerland	VME (mg/m ³)	5 mg/m ³
Switzerland	VLE (mg/m ³)	5 mg/m ³

Benzyl alcohol (100-51-6)		
Bulgaria	OEL TWA (mg/m ³)	5.0 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	40 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	45 mg/m ³
Finland	HTP-arvo (8h) (ppm)	10 ppm
Latvia	OEL TWA (mg/m ³)	5 mg/m ³
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Poland	NDS (mg/m ³)	240 mg/m ³

1,3-Benzenedimethanamine (1477-55-0)		
Austria	MAK (mg/m ³)	0.1 mg/m ³
Austria	MAK Short time value (mg/m ³)	0.1 mg/m ³

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1,3-Benzenedimethanamine (1477-55-0)		
Austria	OEL - Ceilings (mg/m ³)	0.1 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	0.1 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	0.02 ppm
Finland	HTP-arvo (15 min)	0.1 mg/m ³
Finland	OEL Ceiling (mg/m ³)	0.1 mg/m ³
France	VLE (mg/m ³)	0.1 mg/m ³
Portugal	OEL - Ceilings (mg/m ³)	0.1 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0.1 mg/m ³
Norway	Gjennomsnittsverdier (Takverdi) (mg/m ³)	0.1 mg/m ³
Switzerland	VME (mg/m ³)	0.1 mg/m ³
Canada (Quebec)	PLAFOND (mg/m ³)	0.1 mg/m ³
USA - ACGIH	ACGIH Ceiling (mg/m ³)	0.1 mg/m ³
USA - NIOSH	NIOSH REL (ceiling) (mg/m ³)	0.1 mg/m ³

Engineering Measures

General dilution ventilation and/or exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits.

Personal Protective Equipment: Respiratory

If irritation occurs, or if the TLV or PEL is exceeded, use a NIOSH approved air purifying respirator with organic vapor cartridges or canisters, or supplied air respirators.

Personal Protective Equipment: Hands

Use chemical resistant gloves such as neoprene or natural rubber gloves.

Personal Protective Equipment: Eyes

Chemical protective goggles.

Personal Protective Equipment: Skin and Body

Wear appropriate working clothes.

* * * Section 9 - Physical & Chemical Properties * * *

<p>Appearance: Brown</p> <p>Physical State: Liquid</p> <p>Vapor Pressure: ND</p> <p>Boiling Point: 135°C (275°F)</p> <p>Solubility (H2O): Partially soluble</p> <p>Evaporation Rate: ND</p> <p>Viscosity: 450 to 1400 cP</p> <p>Octanol/H2O Coeff.: ND</p> <p>Flash Point Method: ND</p> <p>Lower Flammability Limit (LFL): ND</p> <p>Auto Ignition: ND</p>	<p>Odor: ND</p> <p>pH: 11</p> <p>Vapor Density: ND</p> <p>Melting Point: ND</p> <p>Specific Gravity: ND</p> <p>VOC: ND</p> <p>Bulk Density: 1.03 g/cm³ (20°C (68°F))</p> <p>Flash Point: 85.5°C (185.9°F)</p> <p>Upper Flammability Limit (UFL): ND</p> <p>Burning Rate: ND</p>
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*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible Products

Strong acids, bases, and oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon and nitrogen.

*** Section 11 - Toxicological Information ***

Acute Toxicity

Component Analysis - LD50/LC50

Benzyl alcohol (100-51-6)

Inhalation LC50 Rat 8.8 mg/L 4 h; Oral LD50 Rat 1230 mg/kg; Dermal LD50 Rabbit 2000 mg/kg

Isophorone diamine (2855-13-2)

Oral LD50 Rat 1030 mg/kg

m-Xylene- α,α' -diamine (1477-55-0)

Inhalation LC50 Rat 700 ppm 1 h; Oral LD50 Rat 930 mg/kg; Dermal LD50 Rabbit 2000 mg/kg

Bisphenol A (80-05-7)

Oral LD50 Rat 3200 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

Salicylic acid (69-72-7)

Inhalation LC50 Rat >0.9 mg/L 1 h; Oral LD50 Rat 891 mg/kg; Dermal LD50 Rat >2 g/kg

N,N-Dimethyl-1,3-propanediamine (109-55-7)

Inhalation LC50 Rat >4.31 mg/L 4 h; Oral LD50 Rat 922 mg/kg; Dermal LD50 Rabbit 600 μ L/kg

2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)

Oral LD50 Rat 1000 mg/kg; Dermal LD50 Rat 1280 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Corrosive to the skin. Causes burns. Toxic in contact with skin.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Corrosive to the eyes. Causes burns.

Potential Health Effects: Ingestion

Harmful if swallowed. May cause burns to mouth, throat and stomach.

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96 Hr LC50 Pimephales promelas	3.6 - 5.4 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	4.0 - 5.5 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4 mg/L
96 Hr LC50 Brachydanio rerio	9.9 mg/L [static]
96 Hr EC50 Pseudokirchneriella subcapitata	2.5 mg/L
48 Hr EC50 Daphnia magna	10.2 mg/L
48 Hr EC50 Daphnia magna	3.9 mg/L
48 Hr EC50 Daphnia magna	9.2 - 11.4 mg/L [Static]

Salicylic acid (69-72-7)

Test & Species

48 Hr LC50 Leuciscus idus	90 mg/L [static]
24 Hr EC50 Daphnia magna	105 mg/L
48 Hr EC50 Daphnia magna	870 mg/L [Static]

Conditions

N,N-Dimethyl-1,3-propanediamine (109-55-7)

Test & Species

96 Hr LC50 Leuciscus idus	122 mg/L [static]
72 Hr EC50 Desmodemus subspicatus	56.2 mg/L
96 Hr EC50 Desmodemus subspicatus	57.5 mg/L
48 Hr EC50 Daphnia magna	59.5 mg/L

Conditions

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

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

*** Section 14 - Transportation Information ***

ADR Information

Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Isophorone Diamine, M-Xylene Diamine)

UN #: 2735 **Hazard Class:** 8 **Packing Group:** II

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IATA Information

Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Isophorone Diamine, M-Xylene Diamine)
UN #: 2735 **Hazard Class:** 8 **Packing Group:** II

ICAO Information

Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Isophorone Diamine, M-Xylene Diamine)
UN #: 2735 **Hazard Class:** 8 **Packing Group:** II

IMDG Information

Shipping Name: Amines, Liquid, Corrosive, n.o.s. (Isophorone Diamine, M-Xylene Diamine)
UN #: 2735 **Hazard Class:** 8 **Packing Group:** II

*** Section 15 - Regulatory Information ***
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EU MARKING AND LABELLING:

Symbol(s):

C

Risk Phrases:

- R34 Causes burns.
- R22 Harmful if swallowed.
- R43 May cause sensitization by skin contact.
- R62 Possible risk of impaired fertility.

Substance Analysis - Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Benzyl alcohol 100-51-6	202-859-9	EINECS	DSL	Yes
Isophorone diamine 2855-13-2	220-666-8	EINECS	DSL	Yes
m-Xylene- α,α' -diamine 1477-55-0	216-032-5	EINECS	DSL	Yes
Bisphenol A 80-05-7	201-245-8	EINECS	DSL	Yes
Salicylic acid 69-72-7	200-712-3	EINECS	DSL	Yes
N,N-Dimethyl-1,3-propanediamine 109-55-7	203-680-9	EINECS	DSL	Yes
2,4,6-Tri(dimethylaminomethyl)phenol 90-72-2	202-013-9	EINECS	DSL	Yes

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*** Section 16 - Other Information ***

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

Available on request.

End of Sheet