Material Safety Data Sheet

463-12-8

Manufacturer's Name	SIKKENS AEROSPACE FINISHES DIVISION	Emergency Telephone No.	(213)- 320-6800
Address	20846 S. Normandie Avenue Torrance, California 90502	Other Information Calls	(213)- 320-6800
Signature of Person Responsible for Preparation	Lee A Wilkinson	Date Prepared	November, 1985

SECTION 1 - IDENTITY

Common Name: (used on label)	Epoxy Primer	Metal Free Metal Bearing	[ ] [X]
Trade Name & Synonyms			with Catalyst CA-116

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common names))	Cas No.	% Wt.	ACGIH Threshold Limit Value		OSHA Permissible Exposure Limit		LEL	Vapor Pressure (mm Hg)
Flammable Liquid Class 1B			PPM	MG/M^3	PPM	MG/M^3		
Methyl Ethyl Ketone	78-93-3	15-20	200	590	200	590	1.8	70
Xylene (Skin)	1330-20-7	5-10	100	435	100	435	1.0	7
Methyl Isobutyl Ketone	108-10-1	5-10	50	205	100	410	1.4	15
n-Butyl Acetate	123-86-4	<5	150	710	150	710	1.7	8
n-Butyl Alcohol	71-36-3	<5	C50	C150	100	300	1.7	10
Chromate Compound as:								
Cr.	7440-47-3	<3	--	0.5	--	0.5	--	--
Pb.	7439-92-1	<0.4	--	0.15	--	0.05	--	--

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Range	176 to 262° F	Specific Gravity (H$_2$O=1)	10.3 lb/gal.
Vapor Pressure (mm Hg)	4 to 70	Percent Volatile by Volume (%)	60.5%
Vapor Density (Air = 1)	>1	Evaporation Rate (_____ = 1)	Slower than ether
Solubility in Water	Negligible	Reactivity in Water	Negligible
Appearance and Odor	Green -- Moderate Ketone odor.		

Flash Point	23°F. TCC	Flammable Limits in Air % by Volume	Lower 1.0	Upper —	Extinguisher Media	Foam, CO_2, Dry Chemicals	Auto-Ignition Temperature NE

Special Fire Fighting Procedures: Use water spray only to cool surface and protect personnel. Exclude air. Steam and/or water fog may be used.

Unusual Fire and Explosion Hazards: Do not use water. Vapor forms explosive mixture with air between upper and lower explosion limits. Unopened containers may rupture when hot.

SECTION 4 - PHYSICAL HAZARDS

Stability: Unstable ☐ Stable ☒ — Conditions to Avoid: Storage at High Temperature.

Incompatability (Materials to Avoid): Strong Oxidizing Agents, Sparks and Open Flames.

Hazardous Decomposition Products: On Combustion CO, CO_2, Lead and Chromium Oxides,

Hazardous Polymerization: May Occur ☐ Will Not Occur ☒ — Conditions to Avoid: None

SECTION 5 - HEALTH HAZARDS

Threshold Limit Value: See Section II

Signs and Symptoms of Exposure — 1. Acute Overexposure: Headache, Nausea, Dizziness, Skin Irritation.

2. Chronic Overexposure: Breathing Vapors Will Be Irritating to Nose, Throat and Eyes. Skin Irritation.

Medical Conditions Generally Aggravated by Exposure: Dermatitis, Chronic Respiratory Problems.

Chemical Listed as Carcinogen or Potential Carcinogen: None

National Toxicology Program: Yes ☐ No ☒

I.A.R.C. Monographs: Yes ☐ No ☒

OSHA: Yes ☐ No ☒

OSHA Permissible Exposure Limit: See Section II

ACGIH Threshold Limit Value: See Section II

Other Exposure Limit Used: ---

Emergency and First Aid Procedures

1. Inhalation: Remove Victim to Fresh Air. Administer Oxygen. Consult Physician.

2. Eyes: Flush with Copious Amounts of Water for at Least 15 Minutes. Consult Physician.

3. Skin: Remove Contaminated Clothing. Flush Skin with Water.

4. Ingestion: Consult Physician Immediately. Do Not Induce Vomiting.

SECTION 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Air Supplied, Self Contained Respirator in Confined Area.

Ventilation: To Keep Contaminated Concentration Below The TLV

Mechanical (General): Explosion Proof Ventilation

Special

Other: Equipment.

Protective Gloves: Chemically Resistant

Eye Protection: Safety Glasses, Goggles or Face Shields.

Other Protective Clothing or Equipment: Long Sleeves, Protective Apron. Eye Bath and Safety Shower.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Keep Container Closed When Not In Use. Do Not Handle or Store Near Flames, Heat or Strong Oxidents. Adequate Ventilation Required.

Other Precautions: Empty Containers May Be Hazardous, Fumes are Very Flammable. All Equipment Should Be Electrically Grounded. DO NOT WELD EMPTY CONTAINERS.

Steps to be Taken in Case Material is Released or Spilled: Eliminate Source of Ignition. Ventilate Area. Prevent from Entering Sewers or Drains. Contain with Sawdust or Other Absorbant. Clean Area

Waste Disposal Methods: Treat as Hazardous Waste. Consult Chemical Waste Disposal and/or Treatment Entity. Refer to Section VI.

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.

SECTION 4 - PHYSICAL HAZARDS

Stability: Unstable ☐ Stable ☒ — Conditions to Avoid: Storage at high temperature.

Incompatability (Materials to Avoid): Strong oxidizing agents, inorganic acids, sparks and open flames. Contact with moisture.

Hazardous Decomposition Products: On combustion, CO, CO_2, Oxides of Nitrogen.

Hazardous Polymerization: May Occur ☐ Will Not Occur ☒ — Conditions to Avoid: None

SECTION 5 - HEALTH HAZARDS

Threshold Limit Value: See Section II

Signs and Symptoms of Exposure — 1. Acute Overexposure: Headache, nausea, dizziness, skin irritation.

2. Chronic Overexposure: Breathing vapors will be irritating to nose, throat and eyes, dermatitis for skin.

Medical Conditions Generally Aggravated by Exposure: Chronic respiratory disease may be aggravated by prolonged use. Persons with sensitive skin may develope dermatitis.

Chemical Listed as Carcinogen or Potential Carcinogen: None

National Toxicology Program: Yes ☐ No ☒

I.A.R.C. Monographs: Yes ☐ No ☒

OSHA: Yes ☐ No ☒

OSHA Permissible Exposure Limit: See Section II

ACGIH Threshold Limit Value: See Section II

Other Exposure Limit Used: --

Emergency and First Aid Procedures

1. Inhalation: Remove victim to fresh air, administer oxygen. Consult Physician.

2. Eyes: Flush with copious amounts of water for at least 15 minutes. Consult physician.

3. Skin: Remove contaminated clothing. Flush skin with water.

4. Ingestion: Consult physician immediately. Do Not Induce Vomiting.

SECTION 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH/MHSA Approved. Air supplied, self contained respirators in confined areas.

Ventilation: To keep contaminated concentration below the TLV

Mechanical (General): Explosion proof ventilation equipment.

Special:

Other:

Protective Gloves: Chemically resistant

Eye Protection: Safety glasses, goggles or face shields.

Other Protective Clothing or Equipment: Long sleeves, protective apron, eye bath and safety shower.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Keep container closed when not in use. Do not handle or store near flame, heat, strong oxidants. USE ADEQUATE VENTILATION.

Other Precautions: Empty containers may be hazardous. Fumes are very flammable. All equipment should be electrically grounded. DO NOT WELD EMPTY CONTAINERS.

Steps to be Taken in Case Material is Released or Spilled: Eliminate source of ignition, ventilate area. Prevent from entering sewers or drains. Contain spills with sawdust or other absorbant. Clean area.

Waste Disposal Methods: Treat as hazardous waste. Consult chemical waste and/or treatment entity. Refer to Section VI.

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.

Material Safety Data Sheet

CA-116

Manufacturer's Name	SIKKENS AEROSPACE FINISHES DIVISION	Emergency Telephone No.	(213)- 320-6800
Address	20846 S. Normandie Avenue Torrance, California 90502	Other Information Calls	(213)- 320-6800
Signature of Person Responsible for Preparation	Lee A Wilkinson	Date Prepared	November, 1985

SECTION 1 - IDENTITY

Common Name: (used on label)	Amine Catalyst	Metal Free Metal Bearing	XX [ ]
Trade Name & Synonyms	Curing Solution/Compound II for 463-12-8		

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common names)	Cas No.	% Wt.	ACGIH Threshold Limit Value		OSHA Permissible Exposure Limit		LEL	Vapor Pressure (mm Hg)
Flammable Liquid Class IB			PPM	MG/M^3	PPM	MG/M^3		
Methyl Ethyl Ketone	78-93-3	60-65	200	590	200	590	1.8	70
Isopropyl Alcohol	67-63-0	25-30	400	980	400	950	2.5	33
Toluene (Skin)	108-88-3	5-10	100	375	--	--	1.2	22
Tertiary Aromatic Amine	90-72-2	<3	NE	NE	--	--	--	<0.01
Amine Silane Ester	1760-24-3	<3	NE	NE	NE	NE	NE	<1

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Range	176° to 231° F		Specific Gravity (H$_2$O=1)	0.81	Vapor Pressure (mm Hg) <0.01 to 70
Percent Volatile by Volume (%)	96	Vapor Density (Air = 1) >1	Evaporation Rate (_____ = 1)	Slower than ether	
Solubility in Water	Negligible		Reactivity in Water	Slight	
Appearance and Odor	Dark Red--Amine odor				

Flash Point	23°F. TCC	Flammable Limits in Air % by Volume	Lower 1.2	Upper —	Extinguisher Media	Foam, CO_2, Dry Chemicals	Auto-Ignition Temperature NE

Special Fire Fighting Procedures: Do Not Use Water Exclude Air, Use Water Spray Only To Protect Personnel And Cool Exposed Surfaces. Use Foam, Dry Chemicals and CO_2.

Unusual Fire and Explosion Hazards: Vapor Forms Explosive Mixture With Air Between Upper and Lower Explosion Limits. Unopened Containers May Rupture When Hot.